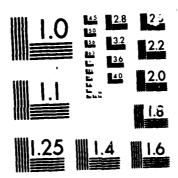
ND-8165 928 PERFORMANCE MONITORING SYSTEM: SUMMARY OF LOCK STATISTICS REVISION 1(U) CORPS OF ENGINEERS FORT BELVOIR VA MATER RESOURCES SUPPORT CENTER BY V FLEMING ET AL. DEC 85 F/G 1 ND-A165 928 1/2 F/G 13/10 NL



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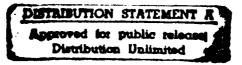


Water Resources

Performance Monitoring System: Summary of Lock Statistics July - September 1983 1983



OTIC FILE COPY



December 1985

Summary Report 84-SR-2
Revision 1



DEPARTMENT OF THE ARMY

INSTITUTE FOR WATER RESOURCES CORPS OF ENGINEERS
CASEY BUILDING, HUMPHREYS ENGINEER CENTER
FORT BELVOIR, VIRGINIA 22060 - 5°586

REPLY TO ATTENTION OF 18 March 1986

SUBJECT: Transmittal of Summary Report 84-SR-2 - Revision 1

Defense Technical Information Center Cameron Station Alexandria, Virginia 22314

1. Reference AR 70-31.

2. Twelve copies of Summary Report 84-SR-1, Revision 1, Performance Monitoring System: Summary of Lock Statistics for July-Sept. 1983" are hereby submitted.

- 3. Initial Distribution of this report has been made to appropriate Corps of Engineers agencies. It is recommended that copies of this report be forwarded to the National Technical Information Service.
- 4. Request the DTIC Form 50 (Incl 2) be completed and returned to WRSC-IWR.

FOR THE COMMANDER AND DIRECTOR:

2 Incl

DAMES R. HANCHEY
Director, Institute for
Water Resources

	REPORT DOCUMENTAT	READ INSTRUCTIONS BEFORE COMPLETING FORM	
١.	REPORT NUMBER	2. GOVT ACCESSION NO	RECIPIENT'S CATALOG NUMBER
	84-SR-2 - Revision 1	10A 165928	
١.	TITLE (and Subtitie)		> TYPE OF REPORT & PERIOD COVERED
	Performance Monitoring System	1	Ouarterly Summary Report
	Summary of Lock Statistics		July 1983 - September 1983
	July 1983 - September 1983	6. PERFORMING ORG. REPORT NUMBER	
	·		84_SR_2 - Revision 1
7.	AUTHOR(*) Marilyn V. Fleming and	Kevin A. Alexander	B. CONTRACT OR GRANT NUMBER(#)
	U.S. Army Corps of Eng	gineers	
	Water Resources Suppor	t Center	
	Institute for Water Re		
9.	PERFORMING ORGANIZATION NAME AND ADD	RESS	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
	U.S. Army Corps of Engineers		ANEX & WORK ONLY HOMBERS
	Water Resources Support Cente	er, IWR	
	Casey Building, Ft. Belvoir,	VA 22060-5586	
1.	CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE
	Office, Chief of Engineers, U	S. Army Corps of	December 1985
	Engineers, Pulaski Building,		13. NUMBER OF PAGES
	Ave., N.W., Washington, D.C.		1 95
f4	MONITORING AGENCY NAME & ADDRESS/II d	illerent from Controlling Office)	15. SECURITY CLASS. (of this report)
			Unclassified
			15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT (of this Report)

Approved for Public Release; distribution unlimited.

- 17. DISTRIBUTION STATEMENT (of the ebetrect entered in Block 20, if different from Report)
- 18. SUPPLEMENTARY NOTES

Although the data are edited, the United States Government does not warrant its suitability for all purposes and does not assume responsibility for results of computations performed with these data. This is an updated version of the PMS Report published in April 1984.

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

lock

Performance Monitoring System

PMS

statistics

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

Lock Performance Monitoring data are collected at Corps locks by lock operators from observation and information provided by waterway operators. This quarterly summary is an overview of the collected statistics.

PERFORMANCE MONITORING SYSTEM SUMMARY OF LOCK STATISTICS JULY 1983 - SEPTEMBER 1983

U.S. Army Corps of Engineers Water Resources Support Center Institute for Water Resources Ft. Belvoir, Virginia 22060

December 1985

Summary Report 84-SR-? Revision 1

PREFACE

This report is a product of the Navigation Data Management and Applications Branch of the U. S. Army Engineer Institute for Water Resources (WRSC-IWR). The information is compiled from statistics collected at the Corps locks in support of the lock Performance Monitoring System (PMS).

The study is managed by Miss Julie A. Oweis under the supervision of Mr. Francis M. Sharp, Chief of the WRSC-IWR Navigation Data Management and Applications Branch, and Dr. Lloyd G. Antle, Chief of the WRSC-IWR Navigation Division. The Office of the Chief of Engineers (OCE) sponsors are Mr. Robert Schmitt, DAEN-CWO-M, and Mr. Robert M. Daniel, DAEN-CWP-G.

Requests to update or change the distribution, comments and questions can be directed to Frank Sharp (202-355-3083) or Robert Baldwin (202-653-1007). The information is produced and distributed quarterly.

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Appendix B: Glossary

Introduction

The lock Performance Monitoring System (PMS) is a part of the Inland Navigation Systems Analysis (INSA) program and encompasses the collection, editing, maintenance and analysis of data collected at all Corps-owned and operated locks. The data have been collected since March of 1975 and consist of information describing the traffic through the locks as well as the physical aspects of lockages. The quarterly summary of selected statistics presented in the appendix provides an overview of the traffic and operation at each lock. The quarterly report is presented as a set of three tables for each Corps District. Information reported for each lock and chamber include:

TABLE 1. A listing providing the name of the lock, the river on which the lock is and its dimensions. In those cases where there is no quarterly information, this table will be the only display for the district.

TABLE 2.— A table providing, by direction and total, the number of tows, commercial vessels other than tows, recreational vessels, barges (empty and loaded), commercial lockages, recreational lockages and tonnage.

TABLE 3. A summary of approach, entry, chambering and exit times (maximum, minimum and average) and the number of delays, total delay time, maximum delay time and average delay time.

Although the summary information will be computed and displayed for chambers at which there is data for only one or two months of the quarter, the fact is noted on the report.

APPENDIX A

TABLE 1 PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83
INSTITUTE FOR MATER RESOURCES

EROC	DISTRICT	NAME	DIVISION NAME	HONTHS REPORTED							
B2	NEN ORLE	ANS	LOWER MISS VALLEY	7/83	8/83	9/83					
RIVER		LCODE-LOCK	NAME	LEN/HID/DRAFT	(FT/FT/FT)						
ATCHAFALAY	a river	11-BERNICK	LOCK	0307/0045/11.0							
BAYOU TECH	E	31-KEYSTON	E LOCK	0162/0036/12.0							
FRESHNATER	BAYOU	41-FRESHNA	TER BAYOU LOCK	0600/0084/15.0							
GULF INTRA	COASTAL	01-PORT AL	LEN LOCK	1198/0084/15.0							
		02-BAYOU SURREL LOCK 0800/0056/16.0									
	03-INNER HRBR N		RBR NAVIGATION CANL LK	0646/0075/40.0							
		04-ALGIERS	LOCK	0797/0075/15.0							
		05-HARVEY	LOCK	0425/0075/14.0							
		06-BAYOU B	DEUF LOCK	1158/0075/15.0							
		07-VERHILL	ION FOCK	1200/0056/14.0							
		08-CALCASI	EU LOCK	1205/0075/15.0							
		21-SCHOONE	R BAYOU CONTROL STRUCT	9999/0075/14.0							
		22-CATFISH	POINT CONTROL STRUCT	9999/0056/16.0							
		23-CALCASI	EU SALT MATER BARRIER	9999/0056/15.0							
		77-LELAND	BONHAN LOCK	1200/0110/15.0							
OLD RI	EVER	51-OLD RIV	ER LOCK	1200/0075/15.0							

NO DATA RECORDED ON SUMMRY FILE FOR THIS PERIOD NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

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EROC	DISTRICT N	ame division name	MONTH	is reported	
83	ST LOUIS	LOHER MISS VALLEY	7/83	8/83	9/83
RIVER	1	LCODE-LOCK NAME	LEN/NID/DRAFT (F	T/FT/FT)	-
KASKASKIA	RIVER	01-KASKASKIA RIVER NAVAGATION LK	0610/0084/12.0		
MISSISSIPP	I RIVER	24-LOCK & DAM 24	0610/0110/12.0		
		25-lock & Dan 25	0610/0110/12.0		•
		26-lock & Dam 26	0610/0110/12.0		
		26-lock & Dam 26 aux 1	0380/0110/12.0		
	2	27-CHAIN OF ROCKS LOCK & DAM 27	1210/0110/12.0		
		27-CHAIN OF ROCKS LK & DN 27 AX1	0610/0110/12.0		

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR WATER RESOURCES

MONTHS REPORTED DIVISION NAME DISTRICT NAME EROC 9/83 8/83 7/83 LOWER MISS VALLEY ST LOUIS BARGS BARGS BARGES LCKGES LCKGES LCKGES TONNAGE VESSL TOWS VESSL VESSL RIVER/LOCK NAME TOTAL COMMER RECRTM OTHER TOTAL (KTONS) TOTAL EMPTY FULL RECRTN OTHER (NAV, OPN, ETC) KASKASKIA RIVER KASKASKIA RIVER NAVAGATION LK IXI UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL MISSISSIPPI RIVER LOCK & DAM 24 UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL XXX LOCK & DAM 25 **A397** UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL LOCK & DAM 26 XXX UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL XXX LOCK & DAM 26 AUX 1 UPBOUND STATISTICS DNBOUND STATISTICS TOTAL CHAIN OF ROCKS LOCK & DAM 27 XXX UPBOUND STATISTICS DNBOUND STATISTICS TOTAL CHAIN OF ROCKS LK & DH 27 AX1 XXX UPBOUND STATISTICS

DNBOUND STATISTICS

TOTAL

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83

INSTITUTE FOR MATER RESOURCES

EROC DISTRICT NAME **B3** ST LOUIS

DIVISION NAME LOWER MISS VALLEY

MONTHS REPORTED 7/83

8/83

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***************************************							ALL TIMES EXPRESSED IN MINUTES									
	_	appro avg		: HIN	LOCK ENTR AVG	Y	ESSING (HIN	TIME CHAMBE AVG	R	.) : Hin	EXIT AVG	MAX	DELAYED TOWS	DELAY TIME TOWS	DELAY AVG TONS	DELAY MAX (ALL VSLS)
KASKASKIA RIVER																
KASKASKIA RIVER NAVAGATION L MISSISSIPPI RIVER	. 1	3	44	1	2	29	3	9	29	1	2	20	24	337	1.3	52
LOCK & DAN 24	1	5	81	1	8	59	5	12	41	1	14	46	1162	1423526	1173.5	3818
LOCK & DAN 25	1	6	115	1	8	39	2	8	32	1	14	72	1209	468274	385.7	1721
LOCK & DAH 26	1	2	67	1	10	42	4	13	38	1	10	58	1361	927119	681.2	3953
LOCK & DAH 26 AUX 1	1	5	68	1	6	46	4	13	43	1	10	69	922	370099	397. 5	2223
CHAIN OF ROCKS LOCK & DAM 27	1	9	87	1	8	38	3	11	61	1	8	29	1753	129433	60.1	620
CHAIN OF ROCKS LK & DN 27 AX	1	6	39	1	3	30	5	10	70	1	3	56	29 7	6620	9.7	350

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83

INSTITUTE FOR HATER RESOURCES

EROC	DISTRICT	NAME	SIVISION NAME	HONT	HS REPORTED	
B4	VICKSBUR	G 1	OMER MISS VALLEY	7/83	8/83	9/83
RIVER		LCODE-LOCK NAME		LEN/HID/DRAFT (FT/FT/FT)	
DUCHITA/BL	LACK RIV	01-JONESVILLE LOCI	(& DAH	0600/0084/23.4		
		02-COLUMBIA LOCK	L DAN	0600/0084/27.4		
		03-FELSENTHAL LOCI	C & DAH	0600/0084/11.0		
		04-CALION LOCK & !	PAN	0600/0084/11.0		
		06-LOCK & DAM 6		0268/0055/17.4		
		08-LOCK & DAM 8		0268/0055/19.0		
RED RIVER		41-RED RIVER LOCK	& DAN #1	0685/0084/ 9.0		

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EROC	DISTRICT NAME			ision nam					HC	inths ref	ORTED			
B4	4 VICKSBURG LOHER MISS VALLEY							7/8	7/83		8/83		9/83	
RIVER/LOCK NAME		TOMS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES Commer	RECRTN	LCKGES OTHER OPN, E	TOTAL	TONNAGE (KTONS)	
	OUCHITA/BLACK RIV									******				
JCNESVILL	e lock & Dan	XXX	ľ											
UPBOUND	STATISTICS	27	7	2	36	35	34	69	31	5	19	55	65	
DNBOUND	STATISTICS	28	7	5	40	35	35	70	38	6	22	66	53	
TOTAL		5 5	14	7	76	70	69	139	69	11	41	121	118	
COLUMBIA	LDCK & DAM	EER	1											
UPBOUND !	STATISTICS	12	9	0	21	13	14	27	12	5	1	18	20	
DNBOUND !	STATISTICS	10	10	0	20	12	11	23	11	5	2	18	17	
TOTAL		22	19	0	41	25	25	50	23	10	3	36	38	
FELSENTHA	L LOCK & DAM	IXX	NO D	ATA RECO	RDED FOR	THIS LOC	K							
CALION LO	CK & DAN	XXX	NO D	ATA RECO	RDED FOR	THIS LOC	K							
LOCK & DAM	H 6	III												
UPBOUND S	STATISTICS	7	162	8	177	2	12	14	8	81	5	94	6	
DMBOUND S	STATISTICS	7	1.57	10	174	14	0	14	9	79	5	93	0	
TOTAL		14	319	18	351	16	12	28	17	160	10	187	6	
LOCK & DAI	H 8	XXX												
UPBOUND S	STATISTICS	8	40	2	50	2	14	16	9	27	2	38	7	
DNBOUND S	STATISTICS	7	46	0	53	15	0	15	8	29	1	38	0	
	MISSISSIPPI RIVER	15	86	2	103	17	14	31	17	56	3	76	7	
RED RIVER	LOCK & DAM #1	XXX	NO D	ATA RECO	RDED FOR	THIS LOC	K							

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83

INSTITUTE FOR MATER RESOURCES

EROC DISTRICT NAME DIVISION NAME MONTHS REPORTED

B4 VICKSBURG LONER MISS VALLEY 7/83 8/83 9/83

													ALL TIMES	EXPRESS	ED IN NI	NUTES
	MIN	appri avg			ENTRY		C	TIME HAMBE AVG		.) : HIN	EXIT AVG	MAX	DELAYED TONS	DELAY TINE TOWS	DELAY AVG TONS	DELAY MAX (ALL VSLS)
OUCHITA/BLACK RIV																
JONESVILLE LOCK & DAM	2	6	17	1	4	33	4	18	49	1	6	32	9	42	0.7	20
COLUMBIA LOCK & DAM	3			2	5	15	5	17	30	4	7	20	3	29	1.3	15
FELSENTHAL LOCK & DAM	NO	DATA	RECORDE		THIS	LOCK										
CALION LOCK & DAN	NO	DATA	RECORDE	D FOR	THIS	LOCK	(_			77		20
LOCK & DAM 6	1	2	14	1	2	19	5	11	39	1	3	18	14	77	5.5	_
LOCK & DAM 8 MISSISSIPPI RIVER	1	4	20	1	3	20	5	12	28	2	5	21	15	55	3.6	15
RED RIVER LOCK & DAN \$1	NO	DATA	RECORDE	D FOR	THIS	LOCK	(

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR WATER RESOURCES

EROC DISTRICT NAME E3 NEW YORK DIVISION NAME NORTH ATLANTIC HONTHS REPORTED

8/83

9/83

RIVER HUDSON RIVER LCODE-LOCK NAME 01-TROY LOCK & DAM

0493/0044/15.0

LEN/WID/DRAFT (FT/FT/FT)

7/83

ACE

TABLE 2

EROC	DISTRICT NAME		DIVI	SION NAM	E				HC	inths rei	PORTED		
E3	NEW YORK		NORTH ATLANTIC					7/83		8/83		9/83	
RIVER/LOCK N	AME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES CONNER		LCKGES OTHER), OPN, E	TOTAL	TONNAGE (KTONS)
HUO TROY LOCK &	SON RIVER DAN	X.	RZ			_							
UPBOUND STA	TISTICS	99	1166	4	1269	1	102	103	113	629	18	760	227
DNBOUND STA	TISTICS	97	1314	6	1417	94	3	9 7	115	676	20	811	0
TOTAL		196	2480	10	2686	95	105	200	228	1305	38	1571	228

TABLE 3

EROC E3	DISTRICT NAM NEW YORK				IVISIO ORTH A							7/8	33	MONTHS REP 8/8		9.	/83
*			APPR	DACII				CESSIN			(,)	rvet		ALL TIME : DELAYED	DELAY	DELAY	DELAY
		MIN			: HIN	ENTI AVG	• •	: HIN	ehambe avg		: MIN	EXIT	MAX	TOWS	TIME TONS	^VG Tons	MAX (ALL VSLS)
TROY LOCK	HUDSON RIVER	1	7	25	<u>-</u> 2	5	25	 5	10	20	2	5	10	17	189	0.9	55

TABLE 1

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PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83

INSTITUTE FOR WATER RESOURCES

DIVISION NAME MONTHS REPORTED **EROC** DISTRICT NAME NORTH ATLANTIC 9/83 E4 NORFOLK 7/83 8/83 RIVER LCODE-LOCK NAME LEN/WID/DRAFT (FI/FT/FT) 0530/0072/12.0 ATLANT INTRODASTAL 11-GREAT BRIDGE GUARD LOCK DISMAL SHAMP 01-DEEP CREEK LOCK 0300/0052/ 6.0 0300/0052/ 6.0 02-SOUTH HILLS LOCK

EROC	DISTRICT NAME		CIV	ISION NAME					HC	INTHS REF	PORTED			
E4	NORFOLK		NOR	TH ATLANTI	0			7/8	13	8/8	13	9	7/83	
RIVER/LOCK	(NAME		VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	·	BARGES TOTAL	LCKGES Conher	LCKGES RECRTN (NAV	LCKGES OTHER OPN, E	LCKGES TOTAL (TC)	TONNAGE (KTONS)	
4	ATLANT INTRODASTAL													
GREAT BAID	ige guard lock	XXX												
UPBOUND S	STATISTICS	140	1282	77	1499	98	96	194	196	604	26	826	114	
DMBOUND 9	STATISTICS	152	1400	63	1615	90	96	186	194	598	29	821	105	
TOTAL		292	2682	140	3114	188	192	380	390	1202	55	1647	219	
	DISMAL SHAMP													
KEEP CREEK	(LOCK	IXI	ONLY	FIRST AND	SECONO	HONTHS	REPORTED							
UPBOUND S	STATISTICS	0	87	0	87	0	0	0	0	52	0	52	0	
DNBOUND 9	STATISTICS	0	123	0	123	0	0	0	0	61	0	61	0	
TOTAL		0	210	0	210	0	0	0	0	113	0	113	0	
OUTH HILL	.S LOCK	XXX												
UPROUND S	STATISTICS	0	129	0	129	0	0	0	0	64	1	65	0	
DHEOUND S	STATISTICS	0	83	0	83	0	0	0	1	48	1	50	0	
TOTAL		0	212	0	212	0	0	0	1	112	2	115	0	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83

INSTITUTE FOR HATER RESOURCES HONTHS REPORTED DIVISION NAME **EROC** DISTRICT NAME 7/83 8/83 E4 NORFOLK NORTH ATLANTIC ALL TIMES EXPRESSED IN MINUTES : DELAYED DELAY DELAY DELAY LOCK PROCESSING TIME (MIN.) AVG MAX EXIT : TOWS TIME ENTRY CHAMBER **APPROACH** HIN AUG MAX : HIN AUG MAX : HIN AUG MAX : HIN AUG MAX : TOWS TONS (ALL VSLS) ATLANT INTRCOASTAL 27 292 1237 4.2 GREAT BRIDGE GUARD LOCK DISMAL SHAMP 5 15 0.0 DEEP CREEK LOCK 15 10 3 15 3 12 3 7 5 11 20 0.0 150 SOUTH MILLS LOCK

F1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR HATER RESOURCES

EROC DISTRICT NAME

BUFFALO

DIVISION NAME NORTH CENTRAL **HONTHS REPORTED** 8/83

7/83

9/83

RIVER BLK ROCK CH/TONAHANDA 01-BLACK ROCK LOCK

LCODE-LOCK NAME

LEN/NID/DRAFT (FT/FT/FT) 0650/0070/21.6

TABLE 2

EROC	DISTRICT NAME		DIVI	SION NAM	Æ				K	INTHS REI	PORTED		
F1	BUFFALO		NOR1	H CENTRA	L			7/8	13	8/1	33	9	7/83
RIVER/LOC	CK NAME	TORS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	RECRIN	LCKGES OTHER), OPN, I	TOTAL	TONNAGE (KTONS)
	BLK ROCK CH/TONAHAN	DA											
BLACK ROC	CK LOCK	X1	CX.										
UPBOUND	STATISTICS	6	3896	32	3934	5	1	6	353	764	16	1133	2
DNBOUND	STATISTICS	26	3155	2	3183	3	24	27	41	88 3	17	941	350
TOTAL		32	7051	34	7117	8	25	33	394	1647	33	2074	353

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TABLE 3

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PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83

INSTITUTE FOR HATER RESOURCES

EROC DISTRICT NAME DIVISION NAME **HONTHS REPORTED** F1 **BUFFALO** NORTH CENTRAL 7/83 8/83 9/83 ALL TIMES EXPRESSED IN MINUTES LOCK PROCESSING TIME (MIN.) : DELAYED DELAY DELAY **APPROACH** ENTRY CHAMBER EXIT : TOWS TIME AVG MAX HIN AUG HAX : HIN AUG HAX : HIN AUG HAX : HIN AUG HAX : TOKS TONS (ALL VSLS) BLK ROCK CH/TONAHANDA BLACK ROCK LOCK 1 1 15 1 15 1 12 1 1 15 14 81 2.5 45

TABLE 1

EROC

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Contraction of the property of

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

DISTRICT NAME CHICAGO DIVISION NAME NORTH CENTRAL **HONTHS REPORTED**

7/83

8/83 9/83

RIVER CHICAGO HARBOR LCODE-LOCK NAME 01-CHICAGO LOCK LEN/HID/DRAFT (FT/FT/FT) 0600/0080/21.5

NO DATA RECORDED ON SUMMRY FILE FOR THIS PERIOD NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

	DISTRICT NAME		KUN	THS REPORTED	
F3	DETROIT	NORTH CENTRAL	7/83	8/83	9/83
RIVER	LCODE-LOC	k name	LEN/WID/DRAFT	(FT/FT/FT)	~~~~~~~~~
FOX RIVER	11-DE PER	E LOCK & DAN	0146/0036/ 6.0		
	12-LITTLE	KAUKAUNA LOCK & DAM	0146/0036/ 6.0		
	13-RAPIDE	CROCHE LOCK & DAM	0146/0036/ 6.0		
	21-Kaukaui	NA LOCK 1	0144/0035/ 6.0		
	22-kaukaui		0144/0035/ 6.0		
	23-Kaukaui	NA LOCK 3	0144/0031/ 6.0		
	24-Kaukaui	NA LOCK 4	0144/0037/ 6.0		
	25-kaukaui		0144/0036/ 6.0		
		CHUTE LOCK 2	0147/0035/ 6.0		
		CHUTE COMB LOCKS UPPER	0144/0036/ 6.0		
		CHUTE COMB LOCKS LOWER	0147/0035/ 6.0		
		LOCK & DAN	0144/0035/ 6.0		
	41-APPLETO		0145/0034/ 6.0		
	42-APPLETO		0145/0035/ 6.0		
	43-APPLETO		0144/0035/ 6.0		
	44-APPLETO		0144/0035/ 6.0		
FIF THE		LOCK & DAM	0144/0034/ 6.0		
THE INLAND ROL			0066/0018/ 7.0		
ST MARYS RIVER			0800/0080/31.0		
	02-NEH POE		1200/0110/32.0		
	03-DAVIS L		1350/0080/23.0		
	04-SABIN L	OCK00	1350/0080/23.0		

EROC	DISTRICT NAME		กรบา	SION NAM		FUK MAI	EK KE3UU	KUES	м	NTHS REP	חפורה							
F3	DETROIT			H CENTRA				7/8		8/8		9	/83					
TVER/LOCI	(NAME	TONS	VESSL RECRTN		VESSL TOTAL	BARGS EMPTY				RECRTN		LCKGES TOTAL TC)						
	FOX RIVER																	
e pere lo		XXI	K NO D	ATA RECO	RDED FOR	THIS LO	CIK											
	KAUNA LOCK & DAN	XXI																
	STATISTICS	1	377	3	381	1	0	1	104	424	0	528	٥					
	STATISTICS	ō	408	3	411	ó	ŏ	ō	109	408	ŏ	517	ō					
TOTAL		i	785	6	792	1	ŏ	1	213	832	ŏ	1045	ŏ					
	ICHE LOCK & DAM	***		•	• • •	•	•	•		JUL	•	2010	•					
	STATISTICS	0	-	5	207	0	0	0	2	256	4	262	0					
	STATISTICS	ŏ	215	5	220	Ŏ	ŏ	ŏ	1	237	4	242	ő					
TOTAL	71111201200	Ŏ	417	10	427	Ŏ	ŏ	Ŏ	3	493	8	504	ŏ					
AUKAUNA L	DCK 1	ZZI			767	•	•	•	•	470	·	344	•					
	STATISTICS	0	191	6	197	0	0	0	2	162	3	167	0					
	TATISTICS	ŏ	192	6	198	ŏ	ŏ	ŏ	2	176	4	182	ŏ					
TOTAL		ŏ	383	12	395	Ö	Ŏ	Ŏ	4	338	7	349	0					
aukauna l	NCK 2	***		**	373	v	v	V	7	200	,	J7/	V					
	TATISTICS	0	205	5	210	0	0	0	2	154	8	164	0					
	TATISTICS	Ŏ	195	5	200	Ŏ	ŏ	ŏ	2	169	8	179	Ŏ					
TOTAL		ŏ	400	10	410	Ŏ	ŏ	0	4	323	16	343	0					
AUKAUNA L	OCK 3	222			710	•	•	•	•	JEJ	10	343	V					
	TATISTICS	0	204	5	209	0	0	0	2	162	9	173	0					
	TATISTICS	ŏ	186	4	190	Ŏ	ŏ	Ŏ	2	161	8	171	۸					
TOTAL		Ö	390	9	399	Ŏ	Ŏ	0	4	323	17	344	Ŏ					
AUKAUNA L	nck 4	XXX		•	3//	•	٧	v	7	JLJ	17	דרנ	٧					
	TATISTICS	0	203	2	205	0	٥	0	2	163	7	172	0					
	TATISTICS	ŏ	197	2	199	Ŏ	Ŏ	0	2	164	6	172	Ŏ					
TOTAL		Ŏ	400	4	404	Ŏ	Ŏ	Ŏ	4	327	13	344	0					
AUKAUNA L	OCK 5	***		7	777	V	٧	٧	7	327	13	777	V					
	TATISTICS	0	190	3	193	0	٥	0	2	170	5	177	0					
	TATISTICS	Ŏ	204	3	207	Ŏ	ŏ	Ŏ	1	166	5	172	0					
TOTAL		Ŏ	394	6	400	0	0	Ŏ	3	336	10	349	0					
	TE LOCK 2	111		v	700	٧	٧	٧	J	JJ0	10	J7/	٧					
	TATISTICS	0		4	183	0	٥	0	2	159	5	166	0					
	TATISTICS	ŏ	199	3	202	0	0	0	2	183	5 5	190	•					
TOTAL		Ŏ	378	7	385	0	0	0	4	342	10	356	0					

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

EROC DISTRICT NAME DIVISION NAME **HONTHS REPORTED** F3 DETROIT NORTH CENTRAL 7/83 8/83 9/83 RIVER/LOCK NAME TONS VESSL VESSL VESSL BARGS BARGS BARGES LCKGES LCKGES LCKGES TONNIAGE RECRTN OTHER TOTAL **EMPTY** FULL TOTAL CONNER RECRTN OTHER TOTAL (NAV, OPN, ETC) FOX RIVER LITTLE CHUTE COMB LOCKS UPPER UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL LITTLE CHUTE COMB LOCKS LOHER UPBOUND STATISTICS **DMBOUND STATISTICS** TOTAL CEDARS LOCK & DAM UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL APPLETON LOCK 1 III UPBOUND STATISTICS **DNBOUND STATISTICS** ð TOTAL APPLETON LOCK 2 TTT UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL APPLETON LOCK 3 III UPBOUND STATISTICS **DMBOUND STATISTICS** TOTAL APPLETON LOCK 4 UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL MENASHA LOCK & DAN UPBOUND STATISTICS **DNBOUND STATISTICS** 5/1 TOTAL

					THE PERI INSTITUTE								
EROC	DISTRICT NAME		DIVI	SION NAM	Æ				MO	NTHS REP	ORTED		
F3	DETROIT		NORT	TH CENTRA	NL.			7/8	13	8/8	3	9	7/83
· RIVER/LOC	ck name	TONS	VESSL Recrin	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES Conner	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	Tonnage (Ktons)
					-					(NAV	, OPN, E	ITC)	
*******	THE INLAND ROUTE												

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT

ALANSON LOCK
ST MARYS RIVER

MACARTHUR LOCK
NEW POE LOCK
DAVIS LOCKOO
SABIN LOCKOO

MAXX
NO DATA RECORDED FOR THIS LOCK

TABLE 2

0.0

31

TABLE 3

APPLETON LOCK 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83

INSTITUTE FOR HATER RESOURCES **EROC** DIVISION NAME MONTHS REPORTED DISTRICT NAME 7/83 9/83 F3 DETROIT NORTH CENTRAL 8/83 ALL TIMES EXPRESSED IN MINUTES LOCK PROCESSING TIME (MIN.) : DELAYED DELAY DELAY DELAY AVG MAX **APPROACH** ENTRY Chamber EXIT TONS TIME HIN AUG HAX : HIN AUG HAX : HIN AUG HAX : HIN AUG HAX : TONS TONS (ALL VSLS) FOX RIVER DE PERE LOCK & DAM 10 15 15 10 0.0 16 LITTLE KAUKAUNA LOCK & DAM 10 10 1 8 15 8 0.0 10 RAPIDE CROCHE LOCK & DAM 1 1 7 7 14 0.0 15 1 KAUKAUNA LOCK 1 14 10 0.0 42 KAUKAUNA LOCK 2 10 KAUKAUNA LOCK 3 15 10 0.0 10 10 KAUKAUNA LOCK 4 2 14 9 0.0 10 8 5 KAUKAUNA LOCK 5 7 15 0.0 10 LITTLE CHUTE LOCK 2 8 7 13 1 7 0.0 19 LITTLE CHUTE COMB LOCKS UPPE 1 1 10 6 15 1 1 10 0.0 26 LITTLE CHUTE COMB LOCKS LOWE 1 15 0.0 21 CEDARS LOCK & DAM 4 14 0.0 15 APPLETON LOCK 1 7 5 11 0.0 7 2 0.0 21 APPLETON LOCK 2 10

TABLE 3

SABIN LOCKOO

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

EROC DIVISION NAME DISTRICT NAME MONTHS REPORTED F3 7/83 9/83 DETROIT NORTH CENTRAL 8/83 ALL TIMES EXPRESSED IN MINUTES LOCK PROCESSING TIME (MIN.) : DELAYED DELAY DELAY DELAY APPROACH CHAMBER AVG MAX ENTRY EXIT : TOWS TIME HIN AVG HAX : HIN AVG HAX : HIN AVG HAX : HIN AVG HAX : (ALL VSLS) TONS TONS FOX RIVER APPLETON LOCK 4 0.0 5 **MENASHA LOCK & DAN** 7 13 0.0 23 THE INLAND ROUTE ALANSON LOCK NO DATA RECORDED FOR THIS LOCK ST MARYS RIVER MACARTHUR LOCK 8 58 5 37 3 12 49 58 **NEW POE LOCK** 8 70 7 2 14 49 58 51 5 16 DAVIS LOCKOO 8 18 15 20 1 11

1

17

22 25

EROC DI	STRICT NAME	DIVISION NAME	TNOM	'HS REPORTED	
F4 RO	CK ISLAND	NORTH CENTRAL	7/83	8/83	9/83
RIVER	FCODE-FOCK	NAME	LEN/NID/DRAFT (FT/FT/FT)	
ILLINOIS	01-THOMAS	J O'BRIEN	1000/0110/12.0		
	02-LOCKPOR	T LOCK	0600/0110/12.0		
	03 -b randon	ROAD LOCK & DAN	0600/0110/12.0		
	04-Dresden	ISLAND LOCK & DAN	0600/0110/12.0		
	05-HARSIEL	Les Lock & Dan	0600/0110/12.0		
	06-st arve d	ROCK LOCK & DAN	0600/0110/12.0		
	07-PEORIA	LDCK & DAN	0600/0110/12.0		
		E LOCK & DAM	0600/0110/12.0		
MISSISSIPPI RIV	ER 11-LOCK & I	DAM 11	0600/0110/10.0		
	12-LOCK & 1	DAM 12	0600/0110/10.0		
	13-LOCK & !	DAN 13	0600/0110/10.0		
	14-LOCK & !	DAM 14	0600/0110/10.0		
	14-LOCK & (DAN 14 AUXILIARY 1	0320/0080/10.0		
	15-LOCK & (DAM 15	0600/0110/10.0		
	15-LOCK & (DAN 15 AUXILIARY 1	0360/0110/10.0		
	16-LOCK & (DAM 16	0600/0110/10.0		
	17-LOCK & !	DAN 17	0600/0110/10.0		
	18-LOCK & I	DAN 18	0600/0110/10.0		
	19-LOCK & 1	DAN 19	1200/0110/10.0		
	19-LOCK & i	DAM 19 AUXILIARY 1	1350/0110/10.0		
	20-LOCK & 1	DAN 20	0600/0110/10.0		
	21-LOCK & I	NAM 21	0600/0110/10.0		
	22-LOCK & I	DAM 22	0600/0110/10.0		

THE CANADAS ASSESSED FORMAN MANAGES INC.

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

EROC DISTRICT NAME DIVISION NAME MONTHS REPORTED F4 ROCK ISLAND NORTH CENTRAL 7/83 8/83 9/83 BARGES LCKGES LCKGES LCKGES TONNAGE BARGS RIVER/LOCK NAME TOKS VESSL VESSL VESSL BARGS CONNER RECRETA OTHER (KTONS) RECRTN OTHER TOTAL **EMPTY** FULL TOTAL TOTAL (NAV, OPN, ETC) ILLINOIS THOMAS J O'BRIEN XXX UPBOUND STATISTICS **DWBOUND STATISTICS** TOTAL LOCKPORT LOCK XXX **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL Brandon Road Lock & Dah III UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL DRESDEN ISLAND LOCK & DAN XXX UPBOUND STATISTICS **DWBOUND STATISTICS** TOTAL MARSIELLES LOCK & DAM III UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL STARVED ROCK LOCK & DAM TIT UPBOUND STATISTICS **DMBOUND STATISTICS** TOTAL PEORIA LOCK & DAM XXX UPBOUND STATISTICS 258/ **DNBOUND STATISTICS** TOTAL LAGRANGE LOCK & DAM XXX UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

HONTHS REPORTED EROC DISTRICT NAME DIVISION NAME **MORTH CENTRAL** 7/83 9/83 8/83 F4 ROCK ISLAND BARGES LCKGES LCKGES LCKGES TONNAGE RIVER/LOCK NAME TONS VESSL VESSL VESSL BARGS BARGS RECRIN OTHER TOTAL **EMPTY** FULL TOTAL CONNER RECRYN OTHER TOTAL (KTONS) (NAV, OPN, ETC) MISSISSIPPI RIVER LOCK & DAM 11 XXX UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL LOCK & DAM 12 UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL LOCK & DAM 13 XXX UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL LOCK & DAM 14 KEK UPBOUND STATISTICS **DWBOUND STATISTICS** TOTAL LOCK & DAM 14 AUXILIARY 1 III UPBOUND STATISTICS ð **DNBOUND STATISTICS** TOTAL LOCK & DAM 15 III UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL LOCK & DAM 15 AUXILIARY 1 III UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL LOCK & DAM 16 III UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL

EROC DISTRICT NAME		DIV	CSION NAM	Æ				NC	NTHS REF	ORTED		
F4 ROCK ISLAND		NOR1	TH CENTRA	AL.			7/8	33	8/8	13	9	7/83
RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES Total	LCKGES COMMER	LCKGES RECRTN (NAV	LCKGES OTHER	LCKGES Total (TC)	TONNAGE (KTONS)
MISSISSIPPI RIVER						· ^						
OCK & DAM 17	**	I										
UPBOUND STATISTICS	609	166	15	750	5416	2105	7521	1055	141	23	1219	3108
DNBOUND STATISTICS	593	186	12	791	503	6460	6963	1002	158	30	1190	9053
TOTAL	1202	352	27	1581	5919	8565	14484	2057	299	53	2409	12162
LOCK & DAM 18	XX	TX.										
UPBOUND STATISTICS	613	358	32	1003	5543	2144	7687	1028	296	16	1340	3174
DIRBOUND STATISTICS	589	373	34	996	493	65 9 8	7091	975	312	17	1304	9228
TOTAL	1202	731	66	1999	6036	8742	14778	2003	608	33	2644	12402
LOCK & DAM 19	**	T.										
UPBOUND STATISTICS	600	271	51	922	5874	1979	7853	631	125	10	766	2933
DMBOUND STATISTICS	578	305	47	930	326	6899	7225	590	146	10	746	9666
TOTAL	1178	576	98	1852	6200	8878	15078	1221	271	20	1512	12600
OCK & DAM 19 AUXILIARY 1	X	x NO (ATA RECO	RDED FOR	THIS LO	CK						
LOCK & DAM 20	IX	1										
UPBOUND STATISTICS	605	222	79	906	5966	1988	7954	1101	147	26	1274	2939
DMBOUND STATISTICS	584	276	81	941	314	6980	7294	1033	201	22	1256	9779
TOTAL	1189	498	160	1847	6280	8968	15248	2134	348	48	2530	12718
OCK & DAM 21	XX	I										
UPBOUND STATISTICS	808	287	57	952	6137	1902	8039	1095	182	30	1307	2845
DNBOUND STATISTICS	579	337	53	969	196	7128	7324	1009	236	31	1276	9990
TOTAL	1187	624	110	1921	6333	9030	15363	2104	418	61	2583	12836
OCK & DAM 22	II	x										
UPBOUND STATISTICS	606	358	35	999	6174	1956	8130	1083	191	20	1294	2918
DIBOUND STATISTICS	572	408	31	1011	167	7156	7323	1004	225	16	1245	10078
TOTAL	1178	766	66	2010	6341	9112	15453	2087	416	36	2539	12997

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

EROC DISTRICT NAME DIVISION NAME MONTHS REPORTED 7/83 9/83 F4 ROCK ISLAND NORTH CENTRAL 8/83 ALL TIMES EXPRESSED IN MINUTES LOCK PROCESSING TIME (MIN.) : DELAYED DELAY DELAY DELAY TIME AVG MAX CHAMBER TONS **APPROACH** ENTRY HIN AUG MAX : HIN AUG MAX : HIN AUG MAX : HIN AUG MAX : TONS TONS (ALL VSLS) **ILLINOIS** THOMAS J D'BRIEN 5.4 LOCKPORT LOCK 68.3 59.3 BRANDON ROAD LOCK & DAN DRESDEN ISLAND LOCK & DAM 6 393 16 197 53.5 MARSIELLES LOCK & DAM 8 183 92.7 72.6 STARVED ROCK LOCK & DAM PEORIA LOCK & DAM 70.3 92.9 LAGRANGE LOCK & DAM MISSISSIPPI RIVER 10 226 99.4 LOCK & DAM 11 5 386 11 742 115.4 LOCK & DAM 12 12 55 92.7 LOCK & DAM 13 LOCK & DAM 14 14 127 217.7 LOCK & DAM 14 AUXILIARY 1 0.0

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

EROC DISTRICT NAME DIVISION NAME HONTHS REPORTED F4 ROCK ISLAND NORTH CENTRAL 7/83 8/83 9/83

													ALL TIME	S EXPRESS	ED IN HI	NUTES
					LOCK	PROC	ESSIN	TIME	(MIN	.)			DELAYED	DELAY	DELAY	DELAY
		APPR	DACH		ENTR	Y.	(HAMBE	R		EXIT		TOWS	TIME	AVG	MAX
	HIN	AVG	MAX :	MIN	AVG	MAX	: MIN	AVG	HAX	: MIN	AVG	MAX		TONS	TONS	(ALL VSLS)
MISSISSIPPI RIVER																
LOCK & DAN 15	1	9	395	1	8	388	1	10	68	1	18	93	868	198288	184.9	1720
LOCK & DAN 15 AUXILIARY 1	1	1	61	1	1	21	1	10	81	1	1	425	38	1799	7.8	1440
LOCK & DAN 16	1	7	80	1	8	78	1	8	62	1	15	92	1043	218332	175.7	2132
LOCK & DAH 17	1	10	388	1	8	67	1	9	449	1	14	356	1056	304475	253.3	1707
LOCK & DAN 18	1	7	125	1	8	55	1	7	334	1	15	85	1032	218484	181.7	1579
LOCK & DAM 19	1	16		1	8	27	1	17	101	1	9	26	742	60993	51.7	472
LOCK & DAM 19 AUXILIARY 1	NO	DATA	RECORD	ED FO	R THI	S LOC	K -			-	•			••••	02 .,	
LOCK & DAM 20	1	6	70	1	8	36	1	6	64	1	16	67	915	153001	128.6	1100
LOCK & DAN 21	1	7	90	ī	8	35	ī	6	68	1	16	85	980	168345	141.8	609
LOCK & DAM 22	i	8	152	î	9	56	i	7	74	i	18	105	1142	966280	820.2	3114

EROC	DISTRICT	NAME	DIVISION NAME	HOH	HS REPORTED	
F5	ST PAUL		NORTH CENTRAL	7/83	8/83	9/83
RIVER	·	LCODE-LOCK NAME	<u> </u>	LEN/WID/DRAFT (FT/FT/FT)	
MISSISSIPP	I RIVER	01-LOCK & DAN 1	MAIN CHBR 1	0400/0056/11.0		
		01-LOCK & DAM 1	MAIN CHBR 2	0400/0056/11.0		
		02-LOCK & DAM 2		0600/0110/11.0		
		02-LOCK & DAM 2	AUXILIARY 1	0500/0110/11.0		
		03-LOCK & DAM 3		0600/0110/11.0		
		04-LOCK & DAM 4		0600/0110/11.0		
		05-LOCK & DAN 5		0600/0110/11.0		
		06-LOCK & DAM 6		0600/0110/11.0		
		07-LOCK & DAN 7		0600/0110/11.0		
		08-LOCK & DAM 8		0600/0110/11.0		
		09-LOCK & DAM 9		0600/0110/11.0		
		10-LOCK & DAM 10	0	0600/0110/11.0		
		51-ST ANTHONY F	ALLS UPPER L & D	0400/0056/11.0		
		52-ST ANTHONY F	ALLS LOHER L & D	0400/0056/11.0		
		55-LOCK & DAM 56	A	0600/0110/11.0		

CONTROL SOSSOS RECESCA INCOME

FOOC	DICTOTOT NAME		DTI			FUK MA	IEK KESUUK	(LES	ме)	MATER		
eroc F5	DISTRICT NAME ST PAUL			ISION NAME TH CENTRAL				7/8		NTHS REF 8/8		9	/83
	NAME	TONS	VESSL		VESSL TOTAL	BARGS EMPTY	BARGS					LCKGES TOTAL	
						2	. 522	101112			, OPN, E		***************************************
H:	ISSISSIPPI RIVER												
	1 MAIN CHBR 1	XXI	1										
UPBOUND ST	TATISTICS			13	1940	291	251	542	330	702	15	1047	313
DNBOUND ST	TATISTICS	296 285 581	1750	29	2064	201	327	528	327	693	14	1034	486
TOTAL		581	3381	42	4004	492	578	1070	657	1395	29	2081	799
OCK & DAM	1 MAIN CHBR 2	111	ONLY	FIRST AND	SECOND	HONTHS	REPORTED						
UPBOUND ST	TATISTICS	1	0	0	1	2	0	2	2	0	0	2	0
DNBOUND ST	TATISTICS	0	2	0	2	0	0	0	1	0	1	2	0
TOTAL		1	2	0	3	2	0	2	3	0	1	4	0
OCK & DAM	2	TTI	:										
UPBOUND ST	TATISTICS	404	2357	11	2772	3912	530	4442	530	832	17	1379	808
DNBOUND ST	TATISTICS	403	2340	8	2751	84	4057	4141	526	7 9 8	18	1342	5727
TOTAL		807	4697	19	5523	3996	4587	8583	1056	1630	35	2721	6536
OCK & DAM	2 AUXILIARY 1	***	ו מא	DATA RECOR	DED FOR	THIS LO	C K						
OCK & DAN	3	XXX											
UPBOUND ST	TATISTICS	346	3504	51	3901	3597	514	4111	478	1103	19	1600	771
DNBOUND ST	TATISTICS	343	3701	51	4095	64	3739	3803	428	1168	20	1616	5287
TOTAL		689	7205	102	7996	3661	4253	7914	906	2271	39	3216	6058
OCK & DAH	4	IXI											
UPBOUND ST	TATISTICS	356	2527	12	2895	3713	563	4276	463	1025	23	1511	852
DNBOUND ST	TATISTICS	350	2663	19	3032	54	3925	3979	447	1022	29	1498	5554
TOTAL		706	5190	31	5927	3767	4488	8255	910	2047	52	3009	6407
OCK & DAM	5	XXX											
upbound st	TATISTICS	361	2054	9	2424	3624	630	4254	472	887	18	1377	950
DNBOUND ST	TATISTICS	352	2060	17	2429	66	3889	3955	456	896	22	1374	5496
TOTAL		713	4114	26	4853	3690	4519	8209	928	1783	40	2751	6446
OCK & DAM	6	XXX											
UPBOUND ST	TATISTICS	380	2319	12	2711	3956	658	4614	497	969	37	1503	992
d <mark>nbound</mark> st	ATISTICS	366	2442	19	2827	58	4230	4288	475	1050	40	1565	5976
TOTAL		746	4761	31	5538	4014	4888	8902	972	2019	77	3068	6969
OCK & DAM	•	***											
upbound st	TATISTICS	382	3313	24	3719	3951	671	4622	512	1115	23	1650	1020
DNBOUND ST	TATISTICS	367	3353	25	3745	58	4227	4285	475	1198	27	1700	5985
TOTAL		749	6666	49	7464	4009	4898	8907	987	2313	50	3350	7005

EROC	DISTRICT NAME		DIVI	SION NAP	Æ				MC	INTHS REF	PORTED		
F5	ST PAUL			TH CENTRA	NL .			7/(33	8/8	33	5	7/83
RIVER/LOC		TONS	VESSL RECRTN	VESSL	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL		RECRIN		TOTAL	TONNAGE (KTONS)
	MISSISSIPPI RIVER												
LOCK & DAI	N 8	T)	EX										
UPBOUND !	STATISTICS	371	1432	13	1816	3901	747	4648	509	739	26	1274	1126
DNBOUND !	STATISTICS	362	1482	13	1857	77	4262	4339	495	736	26	1257	6010
TOTAL		733	2914	26	3673	3978	5009	8987	1004	1475	52	2531	7136
LOCK & DAI	K 9	X.	KX										
UPBOUND !	STATISTICS	366	1475	102	1943	3676	1082	4758	505	783	15	1303	1590
DNBOUND !	STATISTICS	358	1485	106	1949	247	4156	4403	491	772	14	1277	5874
TOTAL		724	2960	208	3892	3923	5238	9161	996	1555	29	2580	7464
Lock & Dai	H 10	X:	EX.										
UPBOUND S	STATISTICS	449	1560	14	2023	4136	1109	5245	607	782	49	1438	1639
DNBOUND S	STATISTICS	417	1591	33	2041	248	4632	4880	578	85 2	50	1480	65 29
TOTAL		866	3151	47	4064	4384	5741	10125	1185	1634	99	2918	8168
	Y FALLS UPPER L & D	X 2											
	STATISTICS	223	1178	24	1425	240	111	351	244	419	5	668	144
	STATISTICS	217	1292	30	1539	85	257	342	248	425	5	678	367
TOTAL		440	2470	54	2964	325	368	693	492	844	10	1346	511
	Y FALLS LOWER L & D	X)		_							_		
	STATISTICS	300	1164	8	1472	295	249	544	306	416	9	731	309
	STATISTICS	285	1296	20	1601	199	328	527	304	420	11	735	472
TOTAL		585	2460	28	3073	494	577	1071	610	836	20	1466	781
LOCK & DAY		X)			0.554		400			4400		4.485	242
	STATISTICS	360	2652	39	3051	3624	622	4246	496	1099	13	1608	939
DNBOUND S	STATISTICS	351 711	2653 5305	36 <i>7</i> 5	3040 6091	69 3693	3866 4488	3935 8181	447 943	1165 2264	26 39	1638 3246	5470 6409
IUINC		/11	J3VJ	, 3	00/1	3073	UUUT	0101	/43	LLUT	37	JETU	3747

TABLE 3

LOCK & DAM 5A

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR WATER RESOURCES

EROC DISTRICT NAME DIVISION NAME MONTHS REPORTED 9/83 NORTH CENTRAL 7/83 8/83 F5 ST PAUL ALL TIMES EXPRESSED IN MINUTES DELAY : DELAYED DELAY DELAY LOCK PROCESSING TIME (MIN.) MAX : TONS TIME AVG **APPROACH** ENTRY CHAMBER **EXIT** (ALL VSLS) TONS TONS MIN AUG HAX : HIN AUG HAX : HIN AUG HAX : HIN AUG HAX : MISSISSIPPI RIVER 3.8 LOCK & DAM 1 MAIN CHBR 1 0.0 LOCK & DAM 1 MAIN CHBR 2 78.1 4 107 LOCK & DAM 2 NO DATA RECORDED FOR THIS LOCK LOCK & DAM 2 AUXILIARY 1 4 116 55.3 LOCK & DAN 3 45.1 LOCK & DAM 4 60.6 LOCK & DAM 5 62.3 5 79 LOCK & DAM 6 59.6 4 110 LOCK & DAM 7 1 10 95.5 4 78 LOCK & DAM 8 47.7 LOCK & DAM 9 5 115 1 10 90.7 5 119 9 108 LOCK & DAM 10 0.9 ST ANTHONY FALLS UPPER L & D 1 2 40 3.1 ST ANTHONY FALLS LONER L & D 1 2 19

38.8

		TWO IT IN IC LOW M	HIER REDUCKCED		
EROC	DISTRICT NAME	DIVISION NAME	HONTI	is reported	
G2	PORTLAND	NORTH PACIFIC	7/8 3	8/83	9/83
RIVER	LCOO	E-LOCK NAME	LEN/HID/DRAFT (1	T/FT/FT)	-
COLUMBIA RIVE	ER 01-8	ONNEVILLE LOCK & DAM	0500/0075/15.0		
	02-T	HE DALLES DAN	0675/0086/15.0		
	03-J	OHN DAY LOCK & DAM	0675/0086/15.0		
HILLAMETTE RI	IVER 11-N	ILLAMETTE FALLS LOCKS 1 - 4	0210/0040/ 6.5		
	15-W	TLLAMETTE FALLS GUARD LOCK	0210/0040/ 6.5		

EROC	DISTRICT NAME		DIVI	ISION NAM	Æ				HC	inths ref	ORTED		
G2	PORTLAND			TH PACIFI				7/8	13	8/8	13	9	7/83
RIVER/LOCK I	HAME	TONS	VESSL RECRTN	VESSL	VESSL TOTAL	BARGS EMPTY	BARGS Full	BARGES TOTAL	LCKGES Commer	RECRTN		LCKGES TOTAL TC)	TONNAGE (KTONS)
COI	LUMBIA RIVER								******				
BONNEVILLE I	LOCK & DAH	X	EX										
UPBOUND ST	ATISTICS	234	183	19	436	511	262	773	465	139	30	634	429
DNBOUND STA	ATISTICS	243	220	22	485	73	729	802	500	113	33	646	1586
TOTAL		477	403	41	921	584	991	1575	965	252	63	1280	2015
THE DALLES I	MAK	X	KX										
UPBOUND STA	TISTICS	201	80	5	286	410	247	657	225	50	7	282	420
DNBOUND STA	ATISTICS	195	76	4	275	70	577	647	219	51	8	278	1384
TOTAL		396	156	9	561	480	824	1304	444	101	15	560	1804
JOHN DAY LOO	CK & DAM	X:	EX										
UPBOUND STA	ATISTICS	187	106	11	304	400	243	643	212	44	19	275	416
DNBOUND STA	TISTICS	181	117	11	309	71	5 57	628	204	52	22	278	1420
TOTAL		368	223	22	613	471	800	1271	416	96	41	553	1837
WIL	LAMETTE RIVER												
HILLAMETTE F	ALLS LOCKS 1 - 4	X 3	KX										
UPBOUND STA	ATISTICS	105	312	23	440	34	119	153	145	212	3	360	31
DNBOUND STA	ATISTICS	103	367	29	499	7	133	140	138	212	3	353	39
TOTAL		208	679	52	939	41	252	293	283	424	6	713	70
HILLAMETTE F	FALLS GUARD LOCK	X 3	EX										
UPBOUND STA	ATISTICS	110	177	165	452	30	9 2	122	98	186	382	470	20
DNBOUND STA	TISTICS	114	228	166	508	14	100	114	106	187	382	463	29
TOTAL		224	405	331	960	44	192	236	204	373	764	933	49

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TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

EROC DISTRICT NAME DIVISION NAME HONTHS REPORTED

G2 I	PORTLAND			N	DRTH P	ACIFI	:					7/1	33	8/8	3	9/	'83
	. ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~									F /VT		~~~~		ALL TIME			
			APPRO	ACU		ENTR		しをタシエ	ng tin Chamb		N.)	EXIT		: DELAYED : TONS	DELAY TINE	DELAY AVG	DELAY Max
		HIN	AVG		: HIN		• •	: HI			: MIN		HAX		TONS	TONS	(ALL VSLS)
COLU	BIA RIVER	****								~~							
BONNEVILLE LOC	CK & DAM	1	6	70	1	6	55	ļ	5 22	86	1	4	33	471	36224	75.9	465
THE DALLES DAY	1	1	5	28	1	5	30		2 21	78	1	5	15	296	2800	7.0	59
JOHN DAY LOCK		1	4	33	1	5	40		2 24	81	1	4	20	368	1885	5.1	65
WILLA	WETTE RIVER																
HILLAMETTE FAL	.LS LOCKS 1 - 4	1	1	14	1	1	22	,	1 33	116	1	1	13	175	221	1.0	50
HILLAMETTE FAL	LS GUARD LOCK	1	1	11	1	1	3		1 1	31	1	1	11	169	173	0.7	4

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR WATER RESOURCES

EROC DISTRICT NAME

SEATTLE

DIVISION NAME

HONTHS REPORTED

MORTH PACIFIC

7/83

9/83 8/83

RIVER

C3

LCODE-LOCK NAME

LEN/HID/DRAFT (FT/FT/FT) 0760/0080/30.0

LAKE HASHINGTON SHP CA 01-HIRAM M CHITTENDEN LOCKS

0150/0028/25.0

01-HIRAM M CHITTENDEN LOCKS AUX1

TABLE 2

EROC	DISTRICT NAME		DIV	ISION NA	HE				K	WITHS REI	PORTED		
63	SEATTLE		NORT	TH PACIF	IC			7/8	33	8/1	B 3	9	7/83
RIVER/LO	CK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES Conner	LCKGES RECRTN (NA	LCKGES OTHER , OPN, E	LCKGES Total ETC)	TONNAGE (KTONS)
	LAKE HASHINGTON SHP	CA						~~~~~~		·		.+	
HIRAM N (CHITTENDEN LOCKS	I	XX										
UPBOUND	STATISTICS	334	7081	747	8162	102	302	404	740	111	91	942	438
DNBOUND	STATISTICS	313	6495	<i>7</i> 45	7553	246	338	584	707	124	48	879	180
TOTAL		647	13576	1492	15715	348	640	988	1447	235	139	1821	618
HIRAM H	CHITTENDEN LOCKS AUX	1 x	XX										
UPBOUND	STATISTICS	31	8074	654	8759	21	11	32	906	1422	132	2460	0
DMBOUND	STATISTICS	23	8450	531	9004	8	15	23	764	1613	168	2545	0
TOTAL		54	16524	1185	17763	29	26	55	1670	3035	300	5005	0

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TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83

INSTITUTE FOR WATER RESOURCES

EROC G3	G3 SEATTLE					CIFIC						7/8		NONTHS REP 8/8:		9/	8 3
		HIN	APPRO AVG	ACH MAX	. HIN	LOCK ENTR AVG	Y	ESSIN (HIN	CHAMBE			EXIT AVG	HAX:	ALL TIMES DELAYED TOMS	S EXPRESS DELAY TIME TOWS	SED IN NI DELAY AVG TOWS	NUTES DELAY HAX (ALL VSLS)
	LAKE HASHINGTON S CHITTENDEN LOCKS CHITTENDEN LOCKS	1	2	15 19	1 1	3 1	42 26	2 1	14 4	68 41	1	7 8	86 46	562 4	3241 7	5.0 0.1	231 90

PACE 40

TABLE 1

EROC	DISTRICT	NAME	DIVISION NAME	HOI	ITHS REPORTED	
64	HALLA HAL	LA	NORTH PACIFIC	7/83	8/83	9/83
RIVER	******	LCODE-LOCK NAME		LEN/WID/ORAFT	(FT/FT/FT)	*********
COLUMBIA RIV	er	24-HCNARY LOCK &	DAM	0675/0086/14.0		
SNAKE RIVER		01-ICE HARBOR LO	CK & DAM	0670/0086/14.0		
		02-LOHER HONUMEN	TAL LOCK & DAM	0670/0086/14.0		
		03-LITTLE GOOSE	LOCK & DAM	0670/0086/14.0		
		04-LOWER SRANITE	LOCK & DAM	0670/0086/14.0		

EROC DISTRICT NAME		DIV	CSION NAI	Æ				HE	NTHS REF	ORTED		
G4 NALLA NALLA			TH PACIF				7/8	33	8/8			/83
RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES	LCKGES RECRTN	LCKGES	LCKGES TOTAL	TONNAGE (KTONS)
COLUMBIA RIVER	******											
NCNARY LOCK & DAN	X.	EX										
UPBOUND STATISTICS	243	219	8	470	450	355	805	266	118	5	389	577
DNBOUND STATISTICS	237	216	8	461	126	653	779	265	118	4	387	1557
TOTAL	480	435	16	931	576	1008	1584	531	236	9	776	2134
snake river												
ICE HARBOR LOCK & DAN	X	ET										
UPBOUND STATISTICS	196	684	56	936	409	67	476	274	275	1	550	35
DNBOUND STATISTICS	221	680	25	926	10	459	469	265	255	4	524	1117
TOTAL	417	1364	81	1862	419	526	945	539	530	5	1074	1153
loner honumental lock & Dai	M X	EX										
UPBOUND STATISTICS	134	186	8	328	357	65	422	161	108	1	270	35
DNBOUND STATISTICS	136	194	4	334	11	404	415	161	107	2	270	958
TOTAL	270	380	12	662	368	469	837	322	215	3	540	994
LITTLE GOOSE LOCK & DAN	T	KR										
UPBOUND STATISTICS	132	215	6	353	336	65	401	156	104	36	296	35
DNBOUND STATISTICS	133	206	2	341	9	385	394	158	108	39	305	899
TOTAL	265	421	8	694	345	450	795	314	212	75	601	934
LONER GRANITE LOCK & DAN	X	EX										
UPBOUND STATISTICS	128	384	9	521	244	55	299	153	223	8	384	30
DNBOUND STATISTICS	129	394	3	526	10	281	291	154	224	7	385	638
TOTAL	257	<i>7</i> 78	12	1047	254	336	590	307	447	15	76 9	669

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

EROC DISTRICT NAME DIVISION NAME MONTHS REPORTED

64 HALLA HALLA NORTH PACIFIC 7/83 8/83 9/83

ALL TIMES EXPRESSED IN NUMBER

					LOCK	(PRO	CESSIN	C TIM	E (HIN) <u>.</u>)		,	ALL TINE DELAYED	s express Delay	ED IN NI DELAY	NUTES DELAY
	HIN	APPRO AVG		: NIN	ENTR	łY		CHAMBI AVG	R	: HIN	EXIT AVG	HAX	TOWS	TINE TONS	AVG TONS	MAX (ALL VSLS)
COLUMBIA RIVER														~~~~~		
HCNARY LOCK & DAM SNAKE RIVER	1	4	21	1	5	24	9	16	60	1	6	17	480	2586	5.3	80
ICE HARBOR LOCK & DAH	1	3	48	1	4	30	9	26	61	1	3	16	417	3088	7.4	110
LONER MONUMENTAL LOCK & DAM	1	4	20	1	4	20	9	22	53	1	3	11	270	1460	5.4	88
LITTLE GOOSE LOCK & DAM	1	3	19	1	3	26	5	19	39	1	4	30	265	1267	4.7	46
LOHER GRANITE LOCK & DAN	1	3	27	1	4	20	6	11	36	1	3	15	257	1050	4.0	35

EKUC	DISTRICT NAME	DIVISION NAME	MO	NTHS REPORTED	
H1	HUNTINGTON	OHIO RIVER	7/83	8/83	9/83
RIVER	LCODE-LOCK	NAME	LEN/WID/DRAFT	(FT/FT/FT)	
KANAHHA RIV	ER 01-HINFIEL	D LOCKS & DAN MAIN 1	0360/0056/12.0)	
	01-HINFIEL	D LOCKS & DAM MAIN 2	0360/0056/12.0		
	02-MARHET	LOCKS & DAM HAIN 1	0360/0056/12.0	1	
	02-MARMET	LOCKS & DAN HAIN 2	0360/0056/12.0		
	03-LONDON	LOCKS & DAM MAIN 1	0360/0056/12.0		
	03-LONDON	LOCKS & DAN HAIN 2	0360/0056/12.0		
OHIO RIVER	21-BELLEVI	LLE LOCKS & DAM	1200/0110/12.0		
	21-BELLEVI	LLE LOCKS & DAM AUX 1	0600/0110/12.0		
	22-RACINE !	LOCKS & DAM	1200/0110/12.0		
	22-RACINE I	LOCKS & DAM AUX 1	0600/0110/12.0		
	23-GALLIPO	LIS LOCKS & DAM	0600/0110/12.0		
	23-GALLIPO	LIS LOCKS & DAM AUX 1	0360/0110/12.0		
	24-GREENUP	LOCKS & DAN	1200/0110/12.0		
	24-GREENUP	LOCKS & DAH AUX 1	0600/0110/12.0		
	25-capt an	t Heldahl Locks & Dah	1200/0110/12.0		
	25-capt an	T MELDAHL LK&DAN AUX 1	0600/0110/12.0		
	72-HILLOH :	ISLAND LOCKS & DAN	1200/0110/12.0		
	72-WILLOW :	ISLAND LOCKS & DAM AUX	0600/0110/12.0		

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PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

HONTHS REPORTED EROC DISTRICT NAME DIVISION NAME 7/83 8/83 9/83 **H1** OHIO RIVER HUNTINGTON BARGS BARGES LCKGES LCKGES LCKGES TOWNAGE RIVER/LOCK NAME TONS VESSL VESSL VESSL BARCS **FULL** TOTAL CONNER RECRIN OTHER TOTAL RECRTN OTHER TOTAL EMPTY (NAV, OPN, ETC) KANAJIHA RIVER **HINFIELD LOCKS & DAM MAIN 1** XXX UPBOUND TATISTICS **DNBOUND STATISTICS** TOTAL HINFIELD LOCKS & DAM MAIN 2 III UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL HARHET LOCKS & DAN HAIN 1 XXX UPBOUND STATISTICS DWBOUND STATISTICS Ô TOTAL HARMET LOCKS & DAM MAIN 2 III UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL LONDON LOCKS & DAN HAIN 1 III UPBOUND STATISTICS **DMBOUND STATISTICS** TOTAL LONDON LOCKS & DAM MAIN 2 TTT UPBOUND STATISTICS **DMBOUND STATISTICS** TOTAL OHIO RIVER BELLEVILLE LOCKS & DAM XXX UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

HONTHS REPORTED **EROC** DISTRICT NAME DIVISION NAME 9/83 H1 HUNTINGTON OHIO RIVER 7/83 8/83 RIVER/LOCK NAME TONS VESSL VESSL VESSL BARGS BARGS BARGES LCKGES LCKGES LCKGES LCKGES TOWNAGE RECRYN OTHER TOTAL ENPTY FULL TOTAL COMMER RECRTN OTHER TOTAL (MAV, DPN, ETC) OHIO RIVER BELLEVILLE LOCKS & DAM AUX 1 TTT UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL RACINE LOCKS & DAM III UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL RACINE LOCKS & DAM AUX 1 XXX **UPBOUND STATISTICS DMBOUND STATISTICS** TOTAL **GALLIPOLIS LOCKS & DAM** III UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL **GALLIPOLIS LOCKS & DAM AUX 1** UPBOUND STATISTICS DMBOUND STATISTICS TOTAL GREENUP LOCKS & DAM XXX UPBOUND STATISTICS **DMBOUND STATISTICS** TOTAL **GREENUP LOCKS & DAH AUX 1** III UPBOUND STATISTICS **DMBOUND STATISTICS** TOTAL CAPT ANT MELDAHL LOCKS & DAM IXX UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL

EROC DISTRICT NAME DIVISION NAME								HC	INTHS REP	ORTED		
H1 HUNTINGTON			RIVER				7/8	3	8/8	3	9	/83
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES Commer	LCKGES RECRTN (NA	LCKGES OTHER OPN, E	LCKGES TOTAL TC)	TONNAGE (KTONS)
OHIO RIVER	<u> </u>											
CAPT ANT MELDAHL LKEDAN AUX 1	X	KX										
UPBOUND STATISTICS	20	1479	7	1506	40	25	65	25	553	1	57 9	34
DMBOUND STATISTICS	32	1433	6	1471	60	43	103	39	565	1	605	53
TOTAL	52	2912	13	2977	100	68	168	64	1118	2	1184	87
ITLLON ISLAND LOCKS & DAN	X	KX .										
UPBOUND STATISTICS	342	10	3	355	1129	2229	3358	347	7	0	354	3297
DNBOUND STATISTICS	338	22	5	365	1216	2199	3415	339	10	1	350	3192
TOTAL	680	32	8	720	2345	4428	6773	686	17	1	704	6490
ITLLON ISLAND LOCKS & DAM AUX		EX.										
UPBOUND STATISTICS	69	259	20	348	151	66	217	97	129	3	229	78
DMBOUND STATISTICS	87	238	12	337	88	195	283	108	142	3	253	127
TOTAL	156	497	32	685	239	261	500	205	2/1	6	482	205

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

EROC DISTRICT NAME DIVISION NAME MONTHS REPORTED H1 HUNTINGTON OHIO RIVER 7/83 8/83 9/83 ALL TIMES EXPRESSED IN MINUTES LOCK PROCESSING TIME (MIN.) : DELAYED DELAY DELAY DELAY **APPROACH** CHAMBER EXIT AVG ENTRY TONS TIME MAX HIN AUG HAX : HIN AUG HAX : HIN AUG HAX : HIN AUG HAX : TOMS TONS (ALL VSLS) KANAWHA RIVER WINFIELD LOCKS & DAN MAIN 1 1 12 310 12 295 81.1 WINFIELD LOCKS & DAM MAIN 2 1 9 108 10 294 133.1 MARMET LOCKS & DAM MAIN 1 13.7 MARMET LOCKS & DAM MAIN 2 15.6 LONDON LOCKS & DAM MAIN 1 49.0 LONDON LOCKS & DAM MAIN 2 50.3 OHIO RIVER **BELLEVILLE LOCKS & DAM** 11.8 BELLEVILLE LOCKS & DAM AUX 1 1 8.0 RACINE LOCKS & DAN 2 11 12.4 5 22 RACINE LOCKS & DAM AUX 1 0.9 GALLIPOLIS LOCKS & DAM 5 13 2 18 75 144.2 GALLIPOLIS LOCKS & DAM AUX 1 1 5 13 1 9 607.6 GREENUP LOCKS & DAM 1 14 8 11 10.2

TABLE 3

					11	421TH	JIE FO	R MAII	ER KES	UURCE	5					
EROC DISTRICT NAME			D	IVISIO	MAM P	Ε							HONTHS REP	ORTED		
H1 HUNTINGTON			0	HIO RIV	ÆR						7/8	33	8/8	3	9/	'83
	NIN	appri avg		: HIN	LOCI ENTR AVG	?Y	CESSIN	CHAMBE	R	.) : HIN	EXIT AVG	HAX	ALL TIME DELAYED TOMS	S EXPRESS DELAY TIME TOWS	SED IN NI DELAY AVG TOWS	NUTES DELAY HAX (ALL VSLS)
OHIO RIVER													**********	-## 		
GREENUP LOCKS & DAM AUX 1	1	8	207	2	9	70	5	11	87	1	11	60	534	113649	160.7	1023
CAPT ANT HELDAHL LOCKS & DAM	i 1	17	59	1	10	43	5	15	34	1	11	30	392	25370	27.6	375
CAPT ANT MELDAHL LK&DAM AUX	1	4	36	1	2	24	5	12	33	1	2	14	2	32	0.6	34
WILLOW ISLAND LOCKS & DAM	1	16	59	1	8	24	7	14	29	1	8	28	170	7117	10.4	170
WILLOW ISLAND LOCKS & DAM AU	1	10	40	1	3	16	6	13	25	1	5	28	14	240	1.5	40

•			•	-	-	
1	0	м			- 1	

EROC	DISTRICT	NAME	DIVISION NAME	•••	HS REPORTED	
H2	LOUISVILL	E	OHIO RIVER	7/83	8/83	9/83
RIVER		LCODE-LOCK NAM		LEN/HID/DRAFT (I	FT/FT/FT)	~~~~~~~~~
green/barr	EN RIVER	21-LOCK & DAM :	1	0600/0084/12.0		
		22-LOCK & DAN	2	0600/0084/12.0		
OHIO RIVER		41-MARKLAND LO	CKS & DAM	1200/0110/12.0		
		41-MARKLAND LD	CKS & DAN AUX 1	0600/0110/12.0		
		42-HCALPINE LO	CKS & DAN	1200/0110/12.0		
		42-HCALPINE LO	CKS & DAM AUX 1	0600/0110/12.0		
		52-LOCK & DAY S	52	1200/0110/12.0		
		52-LOCK & DAM S	52 AUX 1	0600/0110/12.0		
		75-CANNELTON LO	DCK & DAH	1200/0110/12.0		
		75-CANNELTON L	DCK & DAM AUX	0600/0110/12.0		
		76-NEMBURGH LO	CK & DAM	1200/0110/12.0		
		76-NEWBURGH LOC	CK & DAN AUX 1	0600/0110/12.0		
		77-UNIONTOWN LO	OCK & DAM	1200/0110/12.0		
		77-UNIONTOWN LO	OCK & DAM AUX 1	0600/0110/12.0		
		78-SMITHLAND LO	DCK & DAN	1200/0110/12.0		
		78-SHITHLAND LO	OCK & DAN AUX 1	1200/0110/12.0		

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR WATER RESOURCES

DISTRICT NAME DIVISION NAME **HONTHS REPORTED EROC** 7/83 9/83 LOUISVILLE OHIO RIVER 8/83 RIVER/LOCK NAME TONS VESSL VESSL VESSL BARGS **BARGS** BARGES LCKGES LCKGES LCKGES TONNAGE RECRTN OTHER TOTAL EMPTY FULL TOTAL CONMER RECRTN OTHER TOTAL (NAV, OPN, ETC) GREEN/BARREN RIVER LOCK & DAM 1 XXX UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL LOCK & DAM 2 XXX **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL OHIO RIVER MARKLAND LOCKS & DAN XXX UPBOUND STATISTICS **DIRBOUND STATISTICS** TOTAL HARKLAND LOCKS & DAM AUX 1 UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL HCALPINE LOCKS & DAM TXX UPBOUND STATISTICS **DWBOUND STATISTICS** TOTAL *** ONLY FIRST AND SECOND MONTHS REPORTED MCALPINE LOCKS & DAM AUX 1 **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL LOCK & DAM 52 XXX UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

DISTRICT NAME DIVISION NAME MONTHS REPORTED **EROC** 9/83 OHIO RIVER 7/83 H2 LOUISVILLE 8/83 BARGES LCKGES LCKGES LCKGES TOWNAGE RIVER/LOCK NAME TOWS VESSL VESSL VESSL BARGS BARGS RECRTN OTHER TOTAL **EMPTY** FULL TOTAL COMMER RECRTN OTHER TOTAL (KTONS) (NAV, OPN, ETC) OHIO RIVER LOCK & DAM 52 AUX 1 XXX **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL CANNELTON LOCK & DAM **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL CANNELTON LOCK & DAN AUX XXX **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL **NEMBURGH LOCK & DAM** III **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL **NEHBURGH LOCK & DAM AUX 1 UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL UNIONTOWN LOCK & DAM XXX **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL UNIONTOWN LOCK & DAM AUX 1 **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL SMITHLAND LOCK & DAM XXX UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL

AGE 52

TABLE 2

EROC	DISTRICT NAME		DIVI	SION NAM	E				HC	MTHS REP	ORTED			
H2	LOUISVILLE		OHIO	RIVER				7/8	13	8/8	13	9	/83	
RIVER/LOC	K NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN (NAV	LCKGES OTHER OPN, E	LCKGES TOTAL ETC)	TONNAGE (KTONS)	
SMITHLAND UPBOUND	OHIO RIVER LOCK & DAM AUX 1 STATISTICS STATISTICS	625 105	125 79	20 10	770 194	4370 137	2191 935	6561 1072	646 114	72 41	15 7	733 162	3663 1423	
TOTAL	21H1101102	730	204	30	964	450 <i>7</i>	3126	7633	760	113	22	895	5087	

16.9

TABLE 3

UNIONTOWN LOCK & DAM

7 25

PROGRESS STREET, STREET, SECRETARY SECRETARY STREET, S

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

EROC DISTRICT NAME DIVISION NAME **HONTHS REPORTED** LOUISVILLE OHIO RIVER 7/83 8/83 9/83 H2 ALL TIMES EXPRESSED IN MINUTES LOCK PROCESSING TIME (MIN.) DELAYED DELAY DELAY DELAY TIME AVG MAX **APPROACH** ENTRY CHAMBER TONS **EXIT** (ALL VSLS) MIN AUG MAX : MIN AUG MAX : MIN AUG MAX : MIN AUG MAX : TONS TONS GREEN/BARREN RIVER 4.1 LOCK & DAM 1 4.0 LOCK & DAM 2 OHIO RIVER 25.3 MARKLAND LOCKS & DAN 167.7 MARKLAND LOCKS & DAH AUX 1 56.9 **MCALPINE LOCKS & DAN** 16 105 755.4 **MCALPINE LOCKS & DAM AUX 1** 11 110 267.3 LOCK & DAM 52 LOCK & DAM 52 AUX 1 471.6 CANNELTON LOCK & DAM 30.0 5.5 CANNELTON LOCK & DAM AUX 17.3 **NEWBURGH LOCK & DAM NEWBURGH LOCK & DAM AUX 1** 1.5

2350

TABLE 3

SHITHLAND LOCK & DAM AUX 1 1 12 50

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

DIVISION NAME **EROC** DISTRICT NAME **HONTHS REPORTED** LOUISVILLE 7/83 8/83 9/83 H2 OHIO RIVER ALL TIMES EXPRESSED IN MINUTES DELAY LOCK PROCESSING TIME (MIN.) : DELAYED DELAY DELAY CHAMBER EXIT TOKS TIME AVG MAX **APPROACH** ENTRY HIN AUG HAX : HIN AUG HAX : HIN AUG HAX : HIN AUG HAX : TONS TONS (ALL VSLS) OHIO RIVER UNIONTONN LOCK & DAN AUX 1 25 105 1.2 550 SHITHLAND LOCK & DAN 1 14 65 1 8 30 11 435 1 80 121 4974 7.3 1250

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EROC	DISTRICT NAME	DIVISION NAME	HON	THS REPORTED	
H3	NASHVILLE	OHIO RIVER	7/83	8/83	9/83
RIVER	LCODE-LOC	k name	LEN/WID/DRAFT	 (FT/FT/FT)	
CLINCH RI	IVER 11-HELTON	HILL LOCK	0400/0075/11.0		
CUMBERLAN	ID RIVER 21-BARKLE	Y LOCK	0800/0110/11.0		
	22-CHEATH	ah lock	0800/0110/11.0		
	23-CORDEL	L HULL LOCK	0400/0084/11.0		
	24-OLD HI	CKORY LOCK	0400/0084/11.0		
TENNESSEE	RIVER 01-KENTUC	KY LOCK	0600/0110/11.0		
	02 -P ICKNI	CK LANDING LOCK	1000/0110/11.0		
	02-PICKWI	CK LANDING LOCK AUX	0600/0110/11.0		
	93-WILSON	LOCK	0600/0110/11.0		
	03-NILSON	LOCK AUX	0292/0060/11.0		
	04-gen jo	S WHEELER LOCK	0600/0110/11.0		
	04-gen jo	S WHEELER LK AUX1	0400/0060/11.0		
	05-GUNTER	SVILLE LOCK	0600/0110/11.0		
	05-GUNTER	SVILLE LOCK AUX 1	0360/0060/11.0		
	06-NICKAJ		0600/0119/11.0		
		Hauga lock	0360/0060/11.0		
	08-NATTS	BAR LOCK	0360/0060/11.0		
	09-FORT L	OUDON LOCK	0360/0060/11.0		

EROC DIS	STRICT NAME		OTIF	: Sion Nai		. PUK MAI	EK KESUU	KLE5	м	inths ref	MOTEN		
	SHVILLE			RIVER	K.			7/8		8/83		9/83	
XIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	RECRTN	LCKGES OTHER J. OPN, E	LCKGES TOTAL TC)	TONNAGE (KTONS)
CLINCH	RIVER												
ELTON HILL LOCK	(EX	ı										
UPBOUND STATIST	TICS	0	54	0	54	0	0	0	1	42	14	57	0
DNBOUND STATIST	TICS	0	53	0	53	0	0	0	1	42	15	58	0
TOTAL		0	107	0	107	0	0	0	2	84	29	115	0
CUMBERI	LAND RIVER												
ARKLEY LOCK		EE	t .										
UPBOUND STATIST	TICS	53	358	4	415	65	343	408	58	186	11	255	507
DHBOUND STATIST	rics	91	409	3	503	791	28	819	105	233	11	349	35
TOTAL		144	767	7	918	856	371	1227	163	419	22	604	543
HEATHAM LOCK		XXI	t										
UPBOUND STATIST	rics	96	247	0	· 343	29	523	552	100	160	14	274	799
DHBOUND STATIST	TICS	96	244	0	340	519	34	553	99	174	11	284	45
TOTAL		192	491	0	683	548	557	1105	199	334	25	558	845
ORDELL HULL LOC	CK	XX	K NO D	ATA RECO	RDED FOR	THIS LO	CK						
LD HICKORY LOCK	〈	EXI	ľ										
UPBOUND STATIST	TICS	27	572	12	611	10	47	57	43	319	15	377	88
DNBOUND STATIST	rics	27	593	13	633	42	7	49	42	352	14	408	6
TOTAL		54	1165	25	1244	52	54	106	85	671	29	785	<i>7</i> 5
TENNESS	SEE RIVER												
ENTUCKY LOCK		XXI	t										
UPBOUND STATIST		453	179	49	681	1019	3237	4256	694	129	4	827	4796
DNBOUND STATIST	TICS	414	81	59	554	2492	1375	3867	668	89	7	764	1895
TOTAL		867	260	108	1235	3511	4612	8123	1362	218	11	1591	6691
ICKNICK LANDING		EXI	•										
UPBOUND STATIST		227	247	15	489	182	2144	2326	333	202	17	552	3127
DMBOUND STATIST	ICS	234	237	12	483	1978	454	2432	342	209	25	576	641
TOTAL		461	484	27	972	2160	2598	4758	675	411	42	1128	3768

CONTRACTOR CONTRACTOR

		_				TESTINIE	PUK MAH	EK KESUU	KLES					
EROC H3	DISTRICT NAM NASHVILLE	E			ISION MA D RIVER	ME			7/8		NTHS REF 8/8		9	/83
RIVER/LOCI	K NAME			VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES CONNER	RECRTN	LCKGES OTHER OPN, E	TOTAL	TONNACE (KTONS)
	TENNESSEE RIVER													
	LANDING LOCK AUX		XXX		DATA REC	ORDED FOR	THIS LO	CK						
WILSON LO			XXX			455	4.00		4445	-	00/		440	1054
	STATISTICS		127	262	64	453	192	921	1113	205	206	8	419	1354
	STATISTICS		138	257	62	457	803	429	1232	219	204	12	435	587
TOTAL			265	519	126	910	995	1350	2345	424	410	20	854	1942
HILSON LO		AUX				NONTH REP					-		40	47
	STATISTICS		6	5	1	12	4	36	40	28	20	0	48	47
	STATISTICS		3	7	4	14	34	10	44	33	22	0	55	12
TOTAL			9	12	5	26	38	46	84	61	42	0	103	60
	HEELER LOCK		XXI		_							_		4000
	STATISTICS		114	116	6	236	171	889	1060	154	99	4	257	1300
	STATISTICS		116	103	10	229	756	360	1116	170	81	5	256	493
TOTAL			230	219	16	465	927	1249	2176	324	180	9	513	1794
GEN JOS W		AUX1	TXX		_							_		
	STATISTICS		9	284	5	298	6	49	55	15	211	1	227	71
	STATISTICS		6	275	0	281	50	25	75	8	219	3	230	35
TOTAL			15	559	5	579	56	74	130	23	430	4	457	106
GUNTERSVIL			III											
	STATISTICS		124	543	4	671	265	716	981	157	223	2	382	1033
	STATISTICS		126	560	3	689	615	440	1055	159	224	4	387	585
TOTAL			250	1103	7	1360	880	1156	2036	316	447	6	769	1619
GUNTERSVIL		UX 1	XXX				_			_		_		_
	STATISTICS		1	506	2	509	0	1	1	3	264	2	269	0
	STATISTICS		0	461	0	461	0	0	0	0	267	4	271	0
TOTAL			1	967	2	970	0	1	1	3	531	6	540	0
NICKAJAC L			IX									_		
	STATISTICS		150	244	9	403	325	702	1027	180	157	3	340	922
	STATISTICS		153	203	10	366	619	465	1084	187	141	4	332	623
TOTAL			303	447	19	769	944	1167	2111	367	298	7	672	1546
CHICKAMAUC			III											
UPBOUND S	STATISTICS		66	760	8	834	68	256	324	127	505	40	672	379
	STATISTICS		62	751	13	826	189	133	322	121	544	42	707	185
TOTAL			128	1511	21	1660	257	389	646	248	1049	82	1379	564

TABLE 2

MASSOS COMPANY

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83

EROC H3	DISTRICT NAME NASHVILLE			ISION NA	ME LINSTITUTE	. Fur wat	er resou	RCES 7/8		ONTHS REF 8/8		,	7/83
RIVER/LO	CK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS Empty	BARGS FULL	BARGES TOTAL	LCKGES Conner	LCKGES RECRTN (NAV	LCKGES OTHER OPN, E	LCKGES TOTAL	Tonnage (Ktons)
	TENNESSEE RIVER			**									
HATTS BAF		X	TX.										
UPBOUND	STATISTICS	47	547	0	594	69	118	187	66	448	,	EOA	100
DMBOUND	STATISTICS	45	546	1	59 2	52	121	173	62	432	6	520	188
TOTAL		92	1093	1	1186	121					6	500	158
FORT LOUD	ION LOCK	XX		•	1100	171	239	360	128	880	12	1020	347
	STATISTICS	25	285	3	313	17	49	66	34	221		5/4	
DNBOUND	STATISTICS	26	257	3	286	36				221	9	264	90
TOTAL		51	-	7			22	58	34	198	9	241	31
. 4 . 136		JI	542	0	599	53	71	124	68	419	18	505	122

TABLE 3

CONTRACTOR PRODUCTS

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR WATER RESOURCES

HONTHS REPORTED EROC DISTRICT NAME DIVISION NAME 7/83 9/83 OHIO RIVER 8/83 Н3 NASHVILLE ALL TIMES EXPRESSED IN MINUTES LOCK PROCESSING TIME (MIN.) : DELAYED DELAY DELAY DELAY EXIT : TONS **APPROACH** TIME AVG MAX ENTRY Chamber TONS TOWS (ALL VSLS) MIN AUG MAX : HIN AUG MAX : HIN AUG MAX : HIN AUG MAX : CLINCH RIVER 0.0 24 **MELTON HILL LOCK CUMBERLAND RIVER** 1033 **BARKLEY LOCK** 55 68 2 44 5 63 30 7.1 115 16 CHEATHAM LOCK 6 27 46 16 31 67 28 722 3.7 219 1 1 NO DATA RECORDED FOR THIS LOCK CORDELL HULL LOCK 20 380 7.0 78 OLD HICKORY LOCK 3 44 3 16 31 TENNESSEE RIVER 1 12 738 192918 222.5 1055 KENTUCKY LOCK 8 75 55 20 453 82 1 16 1 7 26869 58.2 702 PICKWICK LANDING LOCK 62 1 11 92 17 227 237 NO DATA RECORDED FOR THIS LOCK PICKWICK LANDING LOCK AUX 16330 61.6 HILSON LOCK 1 9 95 1 11 95 22 50 11 88 119 2106 234.0 770 **HILSON LOCK AUX** 13 164 7 15 28 45 2 10 60 114 6 6085 GEN JOS WHEELER LOCK 12 148 1 11 41 8 14 29 2 15 88 54 26.4 1095 1 7 5 98 6708 1393 GEN JOS WHEELER LK AUX 1 99 1 4 23 6 13 26 1 11 447.2 290 7 39 10 104 4145 16.5 **GUNTERSVILLE LOCK** 1 65 14 44

TABLE 3

FORT LOUDON LOCK

1 1 1

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PERFORMANCE HONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83

INSTITUTE FOR HATER RESOURCES **EROC** DISTRICT NAME DIVISION NAME NONTHS REPORTED НЗ NASHVILLE OHIO RIVER 7/83 8/83 9/83 ALL TIMES EXPRESSED IN MINUTES LOCK PROCESSING TIME (MIN.) : DELAYED DELAY DELAY DELAY APPROACH ENTRY CHAMBER TIX3 TONS TIME AVG MAX HIN AUG HAX : HIN AUG HAX : HIN AUG HAX : HIN AUG HAX : TOKS TONS (ALL VSLS) TENNESSEE RIVER GUNTERSVILLE LOCK AUX 1 2 10 56 5 114 4 50 2 14 2 13 12 6 25 1 0 0 0.0 600 NICKAJAC LOCK 1 8 215 9 1 7 44 14 30 1 76 4386 14.4 188 CHICKAMAUGA LOCK 4 1 3 113 1 30 12 72 6 1 54 8946 69.8 866 HATTS BAR LOCK

6 15 32 1

6 23 58 1

30

17

2192

787

23.8

15.4

567

260

EROC	DISTRICT NAME	DIVISION NAME	NONTHS REPORTED					
H4	PITTSBURGH	OHIO RIVER	7/83	8/83	9/83			
RIVER	LCODE-LOCK	NAME	LEN/HID/DRAFT (FT/FT/FT)					
ALLEGHENY RIVER	ER 42-LOCK & I	DAM 2	0360/0056/13.0					
	43-LOCK & 1	DAN 3	0360/0056/13.0					
	44-LOCK & !	DAN 4	0360/0056/13.0					
	45-LOCK & !	DAN 5	0360/0056/13.0					
	46~LOCK & 1	DAN 6	0360/0056/13.0					
	47-LOCK & (DAN 7	0360/0056/13.0					
	48-LOCK & (DAN 8	0360/0056/13.0					
	49~LOCK & [DAM 9	0360/0056/13.0					
MONONGAHELA RIVER	IVER 22-LOCK & (DAN 2	0720/0110/13.0					
	22-LOCK & [DAM 2 AUX 1	0360/0056/13.0					
	23-LOCK & I	DAN 3	0720/0056/13.0					
	23-LOCK & I	DAM 3 AUXILIARY 1	0360/0056/13.0					
	24-LOCK & (DAN 4	0720/0056/13.0					
	24-LOCK & 6	DAM 4 AUXILIARY 1	0360/0056/13.0					
	25-MAXHELL	LOCK & DAN	0720/0084/13.0					
	25-HAXHELL	LOCK & DAM AUX 1	0720/0084/13.0					
	27-LOCK & L	DAM 7	0360/0056/13.0					
	28-LOCK & [0360/0056/13.0					
	29-HORGANTO	DIN LOCK & DAN	0600/0084/13.0					
		AND LOCK & DAY	0600/0084/13.0					
		A LOCK & DAH	0600/0084/13.0					
OHIO RIVER		I LOCK & DAH	0600/0110/13.0					
		I LOCK & DAY AUX 1	0360/0056/13.0					
		OS LOCK & DAM	0600/0110/13.0					
		DS LOCK & DAM AUX 1	0360/0056/13.0					
		ERY LOCK & DAM	0609/0110/13.0					
	03-HONTGOHE	ERY LOCK & DAM AUX 1	0360/0056/13.0					
	04-NEW CUME	BERLAND LOCK & DAN	1200/0110/13.0					
		BERLAND LK & DAM AUX 1	0600/0110/13.0					
		AND LOCK & DAY	1200/0110/13.0					
	05-PIKE IS	LAND LOCK & DAM AUX 1	0600/0110/13.0					
	· · · · · · ·	LOCKS & DAY	1200/0110/13.0					
		LOCKS & DAN AUX 1	0600/0110/13.0					

FD00	ATATATAT NAME	THE THE PUR WHICH RESURCES											
EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER						7/83		ONTHS REPORTED 8/83		9/83	
RIVER/LOCK NAME		TONS	VESSL RECRTN		VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL		RECRTN		TOTAL	TONNAGE (KTONS)
*******	ALLEGHENY RIVER												
LOCK & DAI	₩ 2	E	t x										
UPBOUND !	STATISTICS	266	2474	28	2768	533	270	803	474	999	11	1484	314
DNBOUND !	STATISTICS	267	2486	30	2783	299	510	809	476	968	17	1461	251
TOTAL		533	4960	58	5551	832	780	1612	950	1967	28	2945	566
LOCK & DAI	H 3	X1	KX .										
UPBOUND !	STATISTICS	262	1494	31	1787	534	290	824	527	5 99	11	1137	341
DNBOUND !	STATISTICS	267	1499	17	1783	323	505	828	506	572	9	1087	240
TOTAL		529	2993	48	3570	857	795	1652	1033	1171	20	2224	581
LOCK & DAI	X 4	X	E X										
UPBOUND !	STATISTICS	184	1559	14	1757	636	60	696	490	481	6	9 77	85
DNBOUND S	STATISTICS	186	1548	12	1746	65	631	696	457	424	6	887	283
TOTAL		370	3107	26	3503	701	691	1392	947	905	12	1864	368
LOCK & DAI	N 5	XI	IX.										
UPBOUND !	STATISTICS	144	1020	0	1164	609	6	615	354	352	5	711	2
DNBOUND !	STATISTICS	144	1009	0	1153	9	806	617	357	349	5	711	257
TOTAL		288	2029	0	2317	618	614	1232	711	701	10	1422	260
LOCK & DAY	H 6	XX	(X										
UPBOUND S	STATISTICS	145	483	2	630	616	6	622	303	165	2	470	2
DNBOUND S	STATISTICS	143	468	1	612	6	609	615	300	162	4	466	257
TOTAL		288	951	3	1242	622	615	1237	603	327	6	936	260
LOCK & DAY	H 7	XI	IX.										
UPBOUND 9	STATISTICS	35	402	7	444	65	7	72	44	237	9	290	2
DNBOUND S	STATISTICS	37	411	5	453	9	65	74	41	274	9	324	28
TOTAL		72	813	12	897	74	72	146	85	511	18	614	31
LOCK & DAN 8		XI	X										
UPBOUND S	STATISTICS	0	392	0	392	0	0	0	123	103	1	227	0
ONBOUND 9	STATISTICS	0	414	0	414	0	0	0	144	124	1	269	0
TOTAL		0	806	0	806	0	0	0	267	227	2	496	0
LOCK & DAY	H 9	XX											
UPBOUND S	STATISTICS	0	323	0	323	0	0	0	0	191	0	191	0
DNBOUND S	STATISTICS	0	328	0	328	0	0	0	0	200	0	200	0
TOTAL		0	651	0	651	0	0	0	٥	391	٥	391	0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

HONTHS REPORTED DISTRICT NAME DIVISION NAME **EROC** 9/83 PITTSBURGH OHIO RIVER 7/83 8/83 H4 VESSL TONS VESSL VESSL BARGES LCKGES LCKGES LCKGES TONNAGE RIVER/LOCK NAME **BARGS** BARGS RECRIN TOTAL **EMPTY** FULL TOTAL COMMER RECRTN OTHER TOTAL OTHER (NAV, OPN, ETC) MONONGAHELA RIVER LOCK & DAM 2 **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL LOCK & DAY 2 AUX 1 XXX **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL LOCK & DAM 3 XXX **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL LOCK & DAM 3 AUXILIARY 1 XXX **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL LOCK & DAM 4 UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL LOCK & DAM 4 AUXILIARY 1 XXX **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL HAXHELL LOCK & DAM XXX UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL MAXHELL LOCK & DAM AUX 1 III UPBOUND STATISTICS **DMBOUND STATISTICS** TOTAL

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR WATER RESOURCES

DIVISION NAME **EROC** DISTRICT NAME MONTHS REPORTED 7/83 9/83 **H4 PITTSBURGH** OHIO RIVER 8/83 BARGS BARGES LCKGES LCKGES LCKGES LCKGES TOWNAGE RIVER/LOCK NAME TONS VESSL VESSL VESSL BARGS **EMPTY** OTHER **FULL** TOTAL COMMER RECRTN OTHER TOTAL (KTONS) RECRTN TOTAL (NAV. OPN. ETC) MONONGAHELA RIVER LOCK & DAM 7 XXX **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL LOCK & DAM 8 IXX UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL HORGANTOWN LOCK & DAN XXX UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL HILDEBRAND LOCK & DAW III UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL OPEKISKA LOCK & DAM III **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL OHIO RIVER ENSWORTH LOCK & DAM XXX **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL ENSHORTH LOCK & DAM AUX 1 IXI UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL

MONTHS REPORTED

TABLE 2

DISTRICT NAME

EROC

STATE OF THE PARTY OF THE PARTY

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

DIVISION NAME

7/83 9/83 H4 **PITTSBURGH** OHIO RIVER 8/83 RIVER/LOCK NAME TONS VESSL VESSL BARGS BARGS BARGES LCKGES LCKGES LCKGES TONNAGE RECRTN OTHER TOTAL **EMPTY** FULL TOTAL CONNER RECRTN OTHER TOTAL (KTONS) (NAV, OPN, ETC) OHIO RIVER DASHIELDS LOCK & DAM XXX UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL DASHIELDS LOCK & DAM AUX 1 III **UPBOUND STATISTICS DMBOUND STATISTICS** TOTAL **HONTGOMERY LOCK & DAN** XXX **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL **HONTGOMERY LOCK & DAM AUX 1** TIT UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL NEH CUMBERLAND LOCK & DAM XXX UPBOUND STATISTICS **DMBOUND STATISTICS** TOTAL NEH CUMBERLAND LK & DAM AUX 1 **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL PIKE ISLAND LOCK & DAM III UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL PIKE ISLAND LOCK & DAM AUX 1 XXX **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83

INSTITUTE FOR HATER RESOURCES

EROC	DISTRICT NAME		DIV	ISION NAME					MC	NTHS REF	ORTED		
H4	PITTSBURGH		OHI	O RIVER				7/8	13	8/8	33	9	/83
RIVER/LO	CK NAME		VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	Bargs Full	BARGES TOTAL	LCKGES Conner	LCKGES RECRTN (NAV	LCKGES OTHER , OPN, E	LCKGES TOTAL (TC)	Tonnage (Ktons)
	OHIO RIVER												
HANNIBAL	LOCKS & DAM	IXI	ONLY	FIRST AND	SECOND	HONTHS	REPORTED						
UPBOUND	STATISTICS	179	3	2	184	643	1171	1814	181	2	0	183	1750
DNBOUND	STATISTICS	178	13	0	191	686	1177	1863	187	1	1	189	1485
TOTAL		357	16	2	375	1329	2348	3677	368	3	1	372	3235
HANNIBAL	LOCKS & DAM AUX 1	XXX	į.										
UPBOUND	STATISTICS	193	173	12	378	738	1065	1803	278	130	41	449	1589
DNBOUND	STATISTICS	198	187	7	392	552	1274	1826	312	130	26	468	1571
TOTAL		391	360	19	770	1290	2339	3629	590	260	67	917	3160

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

MONTHS REPORTED EROC DISTRICT NAME DIVISION NAME 7/83 9/83 OHIG RIVER 8/83 H4 PITTSBURGH ALL TIMES EXPRESSED IN MINUTES LOCK PROCESSING TIME (MIN.) : DELAYED DELAY DELAY DELAY AVG MAX TOKS TIME ENTRY CHAMBER EXIT AUG MAX : MIN AUG MAX : MIN AUG MAX : MIN AUG MAX : TOKS TOWS (ALL VSLS) ALLECHENY RIVER LOCK & DAM 2 8.3 1. 7.4 LOCK & DAM 3 LOCK & DAM 4 6.0 LOCK & DAM 5 1.5 2.4 LOCK & DAM 6 LOCK & DAM 7 1.0 LOCK & DAM 8 0.0 0.0 LOCK & DAM 9 **HONONGAHELA RIVER** 8.7 LOCK & DAN 2 LOCK & DAM 2 AUX 1 2.0 LOCK & DAM 3 14.6 3.5 LOCK & DAM 3 AUXILIARY 1 LOCK & DAN 4 11.8

PACE 68

TABLE 3

HONTGOMERY LOCK & DAM

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SEAT DESCREES SANSON BURGERS

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

EROC DISTRICT NAME DIVISION NAME MONTHS REPORTED PITTSBURCH OHIO RIVER 7/83 9/83 8/83 ALL TIMES EXPRESSED IN MINUTES LOCK PROCESSING TIME (MIN.) DELAYED DELAY DELAY DELAY AVG **APPROACH** ENTRY CHAMBER EXIT : TOMS TIME MAX TOWS MIN AUG MAX : MIN AUG MAX : MIN AUG MAX : MIN AUG MAX : TOKS (ALL VSLS) **HONONGAHELA RIVER** LOCK & DAH 4 AUXILIARY 1 1.5 MAXMELL LOCK & DAN 1.3 **HAXHELL LOCK & DAM AUX 1** 1.9 LOCK & DAM 7 16.1 LOCK & DAN B 18.2 HORGANTONN LOCK & DAN 0.1 HILDEBRAND LOCK & DAM 0.0 OPEKISKA LOCK & DAN 0.5 OHIO RIVER ENSHORTH LOCK & DAM 38.4 ENSNORTH LOCK & DAN AUX 1 93.1 DASHIELDS LOCK & DAN 17.9 DASHIELDS LOCK & DAM AUX 1 1.7

26.8

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83

INSTITUTE FOR MATER RESOURCES **EROC** DIVISION NAME MONTHS REPORTED DISTRICT NAME OHIO RIVER 7/83 8/83 9/83 PITTSBURGH ALL TIMES EXPRESSED IN HINUTES DELAY DELAY : DELAYED DELAY LOCK PROCESSING TIME (MIN.) AVG MAX TIME **APPROACH** CHAMBER **EXIT** TONS (ALL VSLS) TOUG

UTK	AVG		• • • • • • • • • • • • • • • • • • • •	RVL			HVG			HVb	TIHA +		IURO	1 UNG	MLL VOLO
											_				
1	4	54	1	3	21	5	9	20	1	4	17	20	264	2.1	35
2	20	60	1	7	32	5	14	42	2	12	51	134	5137	9.2	330
1	12	98	1	3	27	5	12	47	1	9	46	41	716	2.8	374
1	14	59	1	11	33	5	15	41	1	10	27	145	5682	8.9	108
1 1	9	59	1	4	24	6	14	28	1	7	21	38	673	2.6	67
1	16	57	1	10	47	6	15	36	4	11	45	96	3553	9.9	124
1	12	40	1	5	12	10	14	26	1	8	23	241	36179	92.5	1277
	1 2	1 4 2 20 1 12 1 14 1 1 9 1 16	1 4 54 2 20 60 1 12 98 1 14 59 1 1 9 59 1 16 57	1 4 54 1 2 20 60 1 1 12 98 1 1 14 59 1 1 1 9 59 1 1 16 57 1	1 4 54 1 3 2 20 60 1 7 1 12 98 1 3 1 14 59 1 11 1 1 9 59 1 4 1 16 57 1 10	1 4 54 1 3 21 2 20 60 1 7 32 1 12 98 1 3 27 1 14 59 1 11 33 1 1 9 59 1 4 24 1 16 57 1 10 47	1 4 54 1 3 21 5 2 20 60 1 7 32 5 1 12 98 1 3 27 5 1 14 59 1 11 33 5 1 1 9 59 1 4 24 6 1 16 57 1 10 47 6	1 4 54 1 3 21 5 9 2 20 60 1 7 32 5 14 1 12 98 1 3 27 5 12 1 14 59 1 11 33 5 15 1 1 9 59 1 4 24 6 14 1 16 57 1 10 47 6 15	1 4 54 1 3 21 5 9 20 2 20 60 1 7 32 5 14 42 1 12 98 1 3 27 5 12 47 1 14 59 1 11 33 5 15 41 1 1 9 59 1 4 24 6 14 28 1 16 57 1 10 47 6 15 36	1 4 54 1 3 21 5 9 20 1 2 20 60 1 7 32 5 14 42 2 1 12 98 1 3 27 5 12 47 1 1 14 59 1 11 33 5 15 41 1 1 1 9 59 1 4 24 6 14 28 1 1 16 57 1 10 47 6 15 36 4	1 4 54 1 3 21 5 9 20 1 4 2 2 12 1 12 98 1 3 27 5 12 47 1 9 1 14 59 1 11 33 5 15 41 1 10 1 1 9 59 1 4 24 6 14 28 1 7 1 16 57 1 10 47 6 15 36 4 11	1 4 54 1 3 21 5 9 20 1 4 17 2 20 60 1 7 32 5 14 42 2 12 51 1 12 98 1 3 27 5 12 47 1 9 46 1 14 59 1 11 33 5 15 41 1 10 27 1 1 9 59 1 4 24 6 14 28 1 7 21 1 16 57 1 10 47 6 15 36 4 11 45	1 4 54 1 3 21 5 9 20 1 4 17 20 2 20 60 1 7 32 5 14 42 2 12 51 134 1 12 98 1 3 27 5 12 47 1 9 46 41 1 14 59 1 11 33 5 15 41 1 10 27 145 1 1 9 59 1 4 24 6 14 28 1 7 21 38 1 16 57 1 10 47 6 15 36 4 11 45 96	1 4 54 1 3 21 5 9 20 1 4 17 20 264 2 20 60 1 7 32 5 14 42 2 12 51 134 5137 1 12 98 1 3 27 5 12 47 1 9 46 41 716 1 14 59 1 11 33 5 15 41 1 10 27 145 5682 1 1 9 59 1 4 24 6 14 28 1 7 21 38 673 1 16 57 1 10 47 6 15 36 4 11 45 96 3553	1 4 54 1 3 21 5 9 20 1 4 17 20 264 2.1 2 20 60 1 7 32 5 14 42 2 12 51 134 5137 9.2 1 12 98 1 3 27 5 12 47 1 9 46 41 716 2.8 1 14 59 1 11 33 5 15 41 1 10 27 145 5682 8.9 1 1 9 59 1 4 24 6 14 28 1 7 21 38 673 2.6 1 16 57 1 10 47 6 15 36 4 11 45 96 3553 9.9

ACE 70

NONTHS REPORTED

TABLE 1

EROC

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83

INSTITUTE FOR MATER RESOURCES
DIVISION NAME

K3 JACKSOI	IVILLE SOUTH ATLANTIC	7/83	8/83	9/83
RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT	(FT/FT/FT)	
CROSS FLA BRG CNL	11-HENRY HOLLAND BUCKHAN LOCK	0600/0084/15.0		
	12-EUREKA LOCK	0600/0084/15.0		
	13-INGLIS LOCK	0600/0084/15.0		
Canaveral Harbor	21-Canaveral Luck	0600/0090/15.0		
OKEECHOBEE WATRWAY	01-ST LUCIE LOCK & DAM	0250/0050/14.0		
	02-HOORE HAVEN LOCK	0250/0050/11.0		
	03-ORTONA LOCK & DAN	0250/0050/12.0		
	04-H P FRANKLIN LCK & CTRL STRCT	0400/0056/14.0		
	05-PORT MAYACA LOCK	0400/0056/14.0		
OKLAHAHA RIVER	31-MOSS BLUFF LOCK & DAM	0156/0030/55.0		

NO DATA RECORDED ON SUMMRY FILE FOR THIS PERIOD NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

DISTRICT NAME

EROC	DISTRICT	NAME	DIVISION NAME	HON	THS REPORTED	
(5	MOBILE		SOUTH ATLANTIC	7/83	8/83	9/83
RIVER		LCODE-LOCK N	AVE	LEN/WID/DRAFT	(FT/FT/FT)	
ALABAMA-C	OOSA RIVERS	11-CLAIBORNE	LOCK & DAM	0600/0084/12.0		
		12-MILLERS F	ERRY LOCK & DAM	0600/0084/12.0		
		13-JONES BLU	FF LOCK & DAN	0600/0084/12.0		
VPLCH/CHT	CH/FLNT RI	21-JIN W000R	UFF LOCK & DAM	0450/0082/12.0		
		22-GEORGE N	ANDRENS LOCK & DAN	0450/0082/12.0		
		23-HALTER F	GEORGE LOCK & DAM	0450/0082/12.0		
BLKHAR/TO	MBIGBEE RI	01-COFFEEVIL	LE LOCK	0600/0110/12.0		
		02-DEMOPOLIS	LOCK & DAM	0600/0110/12.0		
		03-MARRIOR L	OCK & DAH	0600/0110/12.0		
		04-WILLIAM B	ACON OLIVER LK & DH	0460/0095/12.0		
		05-HOLT LOCK	& DAN	0600/0110/12.0		
		06-JOHN HOLL	IS BANKHEAD LK & DH	0600/0110/12.0		
PEARL RIV	er	31-LOCK 1		0310/0065/ 9.0		
		32-LOCK 2		0310/0065/ 9.0		
		33-LOCK 3		0310/0065/ 9.0		
TENN TONB	IGBEE WATERWA	Y41-GAINESVIL	LE LOCK & DAN	0600/0110/12.0		
		42-ALICEVILL	E LOCK & DAN	0600/0110/12.0		
		43-COLUMBUS	LOCK & DAN	0600/0110/12.0		
		44-ABERDEEN	LOCK & DAM	0600/0110/12.0		
		45-LOCK A		0600/0110/12.0		
		46-LOCK B		0600/0110/12.0		
		47-LOCK C		0600/0110/12.0		
		48-LOCK D		0600/0110/12.0		
		49-LOCK E		0600/0110/12.0		
		50-BAY SPRIN	G S	0600/0110/12.0		

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

EROC DISTRICT NAME DIVISION NAME MONTHS REPORTED 7/83 8/83 9/83 MOBILE SOUTH ATLANTIC **K**5 BARGES LCKGES LCKGES LCKGES TONNAGE RIVER/LOCK NAME VESSL VESSL VESSL BARGS BARGS TOWS **FULL** COMMER RECRIM OTHER TOTAL (KTONS) RECRTN OTHER TOTAL EMPTY TOTAL (NAV, DPN, ETC) ALABAMA-COOSA RIVERS CLAIBORNE LOCK & DAM III **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL MILLERS FERRY LOCK & DAM HII UPBOUND STATISTICS **DMBOUND STATISTICS** TOTAL JONES BLUFF LOCK & DAM TTT UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL APLCH/CHTCH/FLNT RI JIN HOODRUFF LOCK & DAN III UPBOUND STATISTICS **DMBOUND STATISTICS** TOTAL GEORGE H ANDREWS LOCK & DAM TEE UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL HALTER F GEORGE LOCK & DAM III UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL BLKWAR/TOMBIGBEE RI COFFEEVILLE LOCK TTT **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL

STATISTICS STATISTICS (SALES

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

DISTRICT NAME DIVISION NAME **HONTHS REPORTED EROC** 9/83 7/83 8/83 K5 **MOBILE** SOUTH ATLANTIC BARGES LCKGES LCKGES LCKGES TONNAGE RIVER/LOCK NAME TORS VESSL VESSL VESSL BARGS BARGS CONMER RECRYN OTHER TOTAL **EMPTY FULL** TOTAL TOTAL RECRTN OTHER (NAV, OPN, ETC) **BLKWAR/TOMBIGBEE RI** DEMOPOLIS LOCK & DAM **UPBOUND STATISTICS DMBOUND STATISTICS** TOTAL HARRIOR LOCK & DAN XXX UPBOUND STATISTICS **DMBOUND STATISTICS** TOTAL HILLIAM BACON OLIVER LK & DH XXX UPBOUND STATISTICS **DMBOUND STATISTICS** TOTAL HOLT LOCK & DAN III UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL JOHN HOLLIS BANKHEAD LK & DM III UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL PEARL RIVER LOCK 1 NO DATA RECORDED FOR THIS LOCK XXX LOCK 2 NO DATA RECORDED FOR THIS LOCK NO DATA RECORDED FOR THIS LOCK **LOCK 3** TENN TOMBIGBEE HATERWAY GAINESVILLE LOCK & DAM III UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL

EROC	DISTRICT NAME		DIV	ISION NAM		FUK MILE	v veson	NUCI	HE	NTHS REF	ORTED		
K5	MOBILE		SOU	TH ATLANT	IC			7/8	13	8/8	13	9	/83
RIVER/LOCI	K NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES Commer	RECRIN	LCKGES OTHER	LCKGES Total TC)	TONNAGE (KTONS)
	TENN TOMBIGBEE HATE	RHAY											
ALICEVILLE	E LOCK & DAM	XX1	K										
UPBOUND S	STATISTICS	5	298	5	308	7	1	8	11	223	15	249	1
DNBOUND S	STATISTICS	5	303	6	314	7	6	13	12	220	15	247	10
TOTAL		10	601	11	622	14	7	21	23	443	30	496	11
COLUMBUS I	LOCK & DAM	XX	E .										
UPBOUND S	STATISTICS	6	310	5	321	5	1	6	16	236	14	266	0
DNBOUND S	STATISTICS	7	317	4	328	6	8	14	15	234	15	264	7
TOTAL		13	627	9	649	11	9	20	31	470	29	530	8
ABERDEEN L	LOCK & DAM	XXX	K NO I	DATA RECO	RDED FOR	THIS LOC	K						
LOCK A		XXX	K 140 (DATA RECO	ROED FOR	THIS LOC	K						
LOCK B		XXX	K NO I	DATA RECO	RDED FOR	THIS LOC	K						
FOCK C		XXX	K NO E	DATA RECO	RDED FOR	THIS LOC	K						
LOCK D		321	K NO I	DATA RECO	RDED FOR	THIS LOC	K						
LOCK E		XXX	K NO (DATA RECO	RDED FOR	THIS LOC	K						
BAY SPRING	S	XXX	K NO ()ATA RECO	RDED FOR	THIS LOC	K						

TABLE 3

HOLT LOCK & DAN

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

EROC DISTRICT NAME DIVISION NAME **HONTHS REPORTED K**5 8/83 MOBILE SOUTH ATLANTIC 7/83 9/83 ALL TIMES EXPRESSED IN MINUTES LOCK PROCESSING TIME (MIN.) DELAYED DELAY DELAY DELAY **APPROACH** ENTRY CHAMBER **EXIT** TOUS TIME AVG MAY HIN AVG MAX : MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : TOKS (ALL VSLS) TONS **ALABAMA-COOSA RIVERS** CLAIBORNE LOCK & DAM 9.2 **MILLERS FERRY LOCK & DAM** 1.0 JONES BLUFF LOCK & DAM 0.0 APLCH/CHTCH/FLNT RI JIN MOODRUFF LOCK & DAN 1.3 GEORGE N ANDREWS LOCK & DAM 0.0 HALTER F GEORGE LOCK & DAN 0.0 BLKHAR/TOMBIGBEE RI COFFEEVILLE LOCK 14.2 DEMOPOLIS LOCK & DAM 13.5 **HARRIOR LOCK & DAM** 25.7 HILLIAM BACON OLIVER LK & DH 51.9

12.2

TABLE 3

BAY SPRINGS

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PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83

INSTITUTE FOR HATER RESOURCES

NO DATA RECORDED FOR THIS LOCK

EROC DISTRICT NAME DIVISION NAME **HONTHS REPORTED** MOBILE SOUTH ATLANTIC 7/83 8/83 9/83 ALL TIMES EXPRESSED IN MINUTES LOCK PROCESSING TIME (MIN.) : DELAYED DELAY DELAY DELAY **APPROACH** ENTRY Chamber **EXIT** AVG TONS TIME MAX MIN AUG MAX : MIN AUG MAX : MIN AUG MAX : MIN AUG MAX : TONS TONS (ALL VSLS) BLKWAR/TOMBIGBEE RI JOHN HOLLIS BANKHEAD LK & DM 1 11 5 13 35 7 20 132 8600 1 16.9 400 PEARL RIVER LOCK 1 NO DATA RECORDED FOR THIS LOCK LOCK 2 NO DATA RECORDED FOR THIS LOCK LOCK 3 NO DATA RECORDED FOR THIS LOCK TENN TOMBIGBEE HATERHAY GAINESVILLE LOCK & DAN 1 37 5 11 23 1 23 2 23 0.9 20 ALICEVILLE LOCK & DAM 1 33 20 5 1 1 1 13 42 1 1 17 2 14 1.4 35 COLUMBUS LOCK & DAN 2 27 1 36 1 15 1 13 1 9 35 35 2.6 APPLETON LOCK 4 999 0 0 999 0 0 LOCK A NO DATA RECORDED FOR THIS LOCK LOCK B NO DATA RECORDED FOR THIS LOCK LOCK C NO DATA RECORDED FOR THIS LOCK LOCK D NO DATA RECORDED FOR THIS LOCK LOCK E NO DATA RECORDED FOR THIS LOCK

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

EROC DISTRICT NAME
K6 SAVANNAH

DIVISION NAME SOUTH ATLANTIC MONTHS REPORTED

8/83

9/83

RIVER SAVANNAH RIVER LCODE-LOCK NAME

01-NEW SAVANNAH BLUFF LOCK & DAN

0360/0056/12.0

LEN/WID/DRAFT (FT/FT/FT)

7/83

TABLE 2

					MOITINIE	CON MAI	EK KEDUU	KLED						
EROC	DISTRICT NAME		DIVI	SION NA	Æ				HC	WITHS REP	ORTED			
K6	Savannah		Sout	H ATLANT	IC			7/8	13	8/8	13	9	7/83	
RIVER/LOC	K NAME	TOKS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS Full	BARGES TOTAL	LCKGES Commer	LCKGES RECRTN (NAV	LCKGES OTHER	TOTAL	TONNAGE (KTONS)	
NEH SAVAN	SAVANNAH RIVER NAH BLUFF LOCK & DAM STATISTICS	xx :	t 4	0	4	0	0	0	0	,	^	2	^	
	STATISTICS	0	5 9	0	5 9	0	0	0	0	5 7	0	5 7	0	

TABLE 3 PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR HATER RESOURCES **EROC** DISTRICT NAME DIVISION NAME HONTHS REPORTED **K6** SAVANNAH SOUTH ATLANTIC 7/83 8/83 9/83 ALL TIMES EXPRESSED IN MINUTES LOCK PROCESSING TIME (MIN.) : DELAYED DELAY DELAY DELAY CHAMBER : TOWS AVG MAX **APPROACH** ENTRY **EXIT** TIME HIN AUG HAX : HIN AUG HAX : HIN AUG HAX : HIN AUG HAX : TONS TOKS (ALL VSLS) SAVANNAH RIVER NEW SAVANNAH BLUFF LOCK & DA 5 6 10 10 11 13 5 0.0

TABLE 1

THE PARTY OF THE P

K7 HILHINGTON	SOUTH ATLANTIC	7/83	8/83 	9/83
RIVER LCODE-LOCK N CAPE FEAR RIVER 01-LOCK & DA 02-LOCK & DA	H 1	LEN/WID/DRAFT (F) 0200/0040/10.0 0200/0040/10.0 0300/0040/10.0	I/FT/FT)	

TABLE 2

EROC DISTRICT NAME			SION NAM					M	inths ref			
K7 WILHINGTON	(7 NILHINGTON SOUTH ATLANTIC						7/8	33	8/8	3	۹	/83
RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES Conner	LCKGES RECRTN (NAV	LCKGES OTHER OPN, E	LCKGES TOTAL (TC)	TONNAGE (KTONS)
CAPE FEAR RIVER												
LOCK & DAH 1	X	t x										
UPBOUND STATISTICS	2	26	0	28	0	2	2	3	6	0	9	1
DNBOUND STATISTICS	2	58	0	60	2	0	2	3	14	1	18	0
TOTAL	14	84	0	88	2	2	4	6	20	1	27	1
LOCK & DAM 2	XX	TX.										
UPBOUND STATISTICS	2	24	13	39	0	2	2	19	12	1	32	1
DNBOUND STATISTICS	2	66	13	81	2	0	2	18	15	2	35	0
TOTAL	4	90	26	120	2	2	4	37	27	3	67	1
HILLIAN O HUSKE LOCK & DAN	X	CX.										
UPBOUND STATISTICS	2	23	0	25	0	2	2	2	11	0	13	1
DNBOUND STATISTICS	2	34	0	36	2	0	2	2	14	0	16	0
TOTAL	4	57	0	61	2	2	4	4	25	0	29	1

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83

INSTITUTE FOR HATER RESOURCES EROC DISTRICT NAME DIVISION NAME

eroc K7	DISTRICT NAME WILMINGTON				VISION OTH ATU							- 7/8	13	NONTHS REPO		9.	/83
******	***************************************		APPRO	ACH		LOCK ENTR			TINE	E (MIN	.)	EXIT		ALL TIME: DELAYED TOMS	S EXPRESS DELAY TINE	SED IN NI DELAY AVG	INUTES DELAY MAX
		MIN	AVG	HAX	: HIN	AVG	MAX	: HIN	AVG	MAX	HIN	AVG	MAX	•	TONS	TOMS	(ALL VSLS)
	CAPE FEAR RIVER												, , , , , , , , , , , , , , , , , , , 	7-0			
LOCK & DA	W 1	5	5	5	5	5	15	5	14	15	5	5	5	0	0	0.0	5
LOCK & DA	H 2	5	5	5	5	5	5	5	8	20	5	7	10	4	20	5.0	5
MILLIAM O	HUSKE LOCK & DAM	4	4	5	5	5	5	30	30	30	5	5	5	0	0	0.0	0

TABLE 1

PERFORMANCE HONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83

INSTITUTE FOR HATER RESOURCES

EROC DISTRICT NAME L2 SACRAMENTO DIVISION NAME SOUTH PACIFIC MONTHS REPORTED

8/83

9/83

RIVER SCRHNTO DHSHP CHNL LCODE-LOCK NAME 01-BARGE CANAL LOCK LEN/WID/DRAFT (FT/FT/FT)

0640/0086/23.0

7/83

NO DATA RECORDED ON SUMMRY FILE FOR THIS PERIOD NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

EKUL	DIZ!KTCI WAWE	NTATZTOM WAUF	ואטתו	ns kepukieu	
МЗ	GALVESTON	SOUTHWESTERN	7/83	8/83	9/83
RIVE	R LCODE-L	DCK NAME	LEN/HID/DRAFT (FT/FT/FT)	
GULF	INTRACOASTAL 11-COLO	RADO RIVER EAST LOCK	1200/0075/15.0		
	12- COL O	RADO RIVER HEST LOCK	1200/0075/15.0		
	13-BRAZ	DS EAST GATE	9999/0075/15.0		
	14-BRAZ	DS MEST GATE	9999/0075/15.0		

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR MATER RESOURCES

MONTHS REPORTED DIVISION NAME DISTRICT NAME **EROC** 8/83 9/83 7/83 SOUTHWESTERN **GALVESTON** ΝЗ BARGES LCKGES LCKGES LCKGES TONNAGE BARGS TONS VESSL VESSL VESSL BARGS RIVER/LOCK NAME CONNER RECRTN OTHER TOTAL TOTAL RECRTN OTHER TOTAL EMPTY FULL (NAV, OPN, ETC) **GULF INTRACOASTAL** COLORADO RIVER EAST LOCK TTT UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL COLORADO RIVER WEST LOCK XXX UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL BRAZOS EAST GATE **UPBOUND STATISTICS DMBOUND STATISTICS** TOTAL XXX **BRAZOS WEST GATE** UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL

TANKAN AMARAK DENGAN BERKANA MENANGAN BERKANA MENANGAN BERKANAN BERKANAN BERKANAN BERKANAN BERKANAN BERKANAN B

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EROC .	DISTRICT NAME			D:	[VISION	! NAME								HONTHS REP	DRTED		
M3	GALVESTON			S	OUTHNES	TERN						7/8	13	8/8	3	9/	83

														ALL TIME	S EXPRESS	ED IN NI	NUTES
						LOCK	PROCI	ESSING	TIME	(HIN	,)			DELAYED	DELAY	DELAY	DELAY
			APPRO	ACH		ENTR	Y	[HAMBE	R		EXIT		TONS	TINE	AVG	MAX
		HIN			: MIN	AVG		: MIN	AVG	MAX	MIN	AVG	MAX		TONS	TONS	(ALL VSLS)
														· 			
G	JLF INTRACOASTAL																
COLORADO RI	IVER EAST LOCK	1	2	23	1	1	61	1	3	57	1	1	15	1941	4025	2.0	22
COLORADO RI	IVER WEST LOCK	1	2	23	1	1	15	1	2	53	1	1	24	1814	3041	1.6	38
BRAZOS EAST	r gate	1	0	20	1	0	21	1	0	5	1	1	103	2229	30111	13.3	582
BRAZOS HEST	r gate	1	1	28	1	0	14	1	0	3	1	1	61	2183	30205	13.7	577

TABLE 1

EROC .	DISTRICT NAME	DIVISION NAME	HON	ITHS REPORTED	
H4	LITTLE ROCK	SOUTHWESTERN	7/83	8/83	9/83
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT	(FT/FT/FT)	
ARKANSAS RIVE	R 01-NORRELL LOCK	R DAN	0600/0110/12.0		
	02-lock & Dam 2		0600/0110/12.0		
	03-LOCK & DAM 3		0600/0110/12.0		
	04-lock & Dan 4		0600/0110/12.0		
	05-lock & Dan 5		0600/0110/12.0		
	06-DAVID D TERRY	LOCK & DAM	0600/0110/12.0		
	07-Hurray Lock &	DAH	0600/0110/12.0		
	08-toad suck fer	ry lock & Dah	0600/0110/12.0		
	09-LOCK & DAM 9		0600/0110/12.0		
	10-dardanelle lo	CK & DAM	0600/0110/12.0		
	11-OZARK LOCK &	DAN	0600/0110/12.0		
	13-LOCK & DAN 13		0600/0110/12.0		

MONTHS REPORTED

TABLE 2

EROC

DISTRICT NAME

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83 INSTITUTE FOR NATER RESOURCES

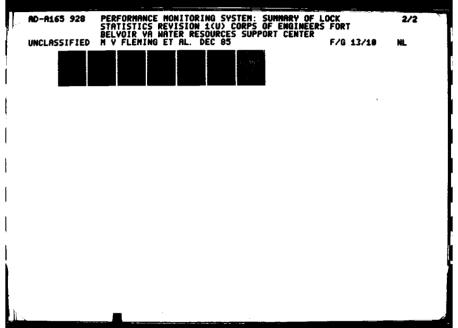
DIVISION NAME

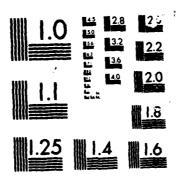
LITTLE ROCK SOUTHNESTERN 7/83 8/83 9/83 BARGES LCKGES LCKGES LCKGES TONNAGE RIVER/LOCK NAME TOKS VESSL VESSL VESSL BARGS BARGS RECRTN OTHER TOTAL COMMER RECRTN OTHER **EMPTY** FULL TOTAL TOTAL (KTONS) (NAV, OPN, ETC) ARKANSAS RIVER NORRELL LOCK & DAN XXX UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL LOCK & DAM 2 **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL LOCK & DAM 3 III **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL LOCK & DAM 4 XXX **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL LOCK & DAN 5 XXX UPBOUND STATISTICS **DMBOUND STATISTICS** TOTAL DAVID D TERRY LOCK & DAM III **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL **MURRAY LOCK & DAN** XXX **UPBOUND STATISTICS DNBOUND STATISTICS** TOTAL TOAD SUCK FERRY LOCK & DAM IIX UPBOUND STATISTICS **DNBOUND STATISTICS** TOTAL

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TABLE 2

EROC	DISTRICT NAME		DIVI	ISION NAM	Æ			HONTHS REPORTED						
H4	LITTLE ROCK			THNESTERN	{			7/93		8/83		9/83		
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES Conner	LCKGES RECRTN (MAX	LCKGES OTHER OPN E	LCKGES TOTAL TC)	To nna ge (Ktons)	
	ARKANSAS RIVER							********				,		
LOCK & DAY	19	X	IX.											
UFBOUND S	STATISTICS	113	81	2	196	395	264	659	114	67	12	193	364	
DNBOUND S	STATISTICS	117	84	1	202	88	603	691	119	68	13	200	823	
TOTAL		230	165	3	398	483	867	1350	23ა	135	25	393	1187	
DARDANELLE LOCK & DAH		XX	IX.											
UPBOUND S	STATISTICS	120	136	6	262	402	267	669	127	106	17	250	367	
DNBOUND S	STATISTICS	123	133	6	262	90	615	705	132	103	18	253	845	
TOTAL		243	269	12	524	492	882	1374	259	209	35	503	1212	
DZARK LOCK	(& DAM	XX	X											
UPBOUND 9	STATISTICS	114	104	2	220	398	256	654	116	72	7	195	343	
DNBOUND S	STATISTICS	118	98	0	216	82	605	687	120	65	7	192	846	
TOTAL		232	202	2	436	480	861	1341	236	137	14	387	1190	
LOCK & DAY	1 13	XX	IX.											
UPBOUND S	TATISTICS	121	206	6	333	395	272	667	124	128	16	268	357	
DNBOUND S	TATISTICS	125	212	6	343	96	606	702	128	137	17	282	920	
TOTAL		246	418	12	676	491	878	1369	252	265	33	550	1278	





MICROCOPY RESOLUTION TEST CHART
HISTORY RUPCALL OF STANDARDS-1963-A

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83

INSTITUTE FOR MATER RESOURCES

EROC DIVISION NAME **HONTHS REPORTED** DISTRICT NAME 9/83 LITTLE ROCK SOUTHNESTERN 7/83 8/83 ALL TIMES EXPRESSED IN MINUTES LOCK PROCESSING TIME (MIN.) : DELAYED DELAY DELAY DELAY MAX **ENTRY** CHAMBER TONS TIME AVG **APPROACH EXIT** TONS (ALL VSLS) HIN AUG HAX : HIN AUG HAX : HIN AUG HAX : HIN AUG HAX : TOKS ARKANSAS RIVER NORRELL LOCK & DAN 2.8 5.3 LOCK & DAM 2 LOCK & DAM 3 6.1 LOCK & DAM 4 2.8 4.3 LOCK & DAM 5 DAVID D TERRY LOCK & DAM 5.1 **HURRAY LOCK & DAM** 4.2 TOAD SUCK FERRY LOCK & DAM 6.0 LOCK & DAM 9 3.7 DARDANELLE LOCK & DAN 7.0 DZARK LOCK & DAM 10.0 LOCK & DAM 13 4.1

PACE 91

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT FOR THE PERIOD 7/83 THROUGH 9/83

INSTITUTE FOR MATER RESOURCES

EROC DISTRICT NAME DIVISION NAME MONTHS REPORTED TULSA SOUTHMESTERM 7/83 8/83 9/83 **H**5 RIVER LEN/NID/DRAFT (FT/FT/FT) LCODE-LOCK NAME ARKANSAS RIVER 21-H D HAYO LOCK & DAM 0600/0110/14.0 22-ROBERT S KERR LOCK & DAN &RES 0600/0110/14.0 23-MEBBERS FALLS LOCK & DAM 0600/0110/14.0 0600/0110/14.0 24-CHOUTEAU LOCK & DAN 0600/0110/14.0 25-NEWT GRAHAM LOCK & DAM

EROC DI	STRICT NAME		DIVI	SION NA	Æ	. ,	NONTHS REPORTED						
K5 TU	LSA		SOUT	HWESTERN	l 			7/8	13	8/83		9/83	
RIVER/LOCK NAME		TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES Total	LCKGES Commer	RECRTN		LCKGES TOTAL ETC)	TONNAGE (KTOKS)
ARKANS	AS RIVER			.,,				,,,,,, ,,,			·		
H D MAYD LOCK &	DAH	X	EX										
UPBOUND STATIS	TICS	116	384	10	510	396	222	618	122	149	9	280	304
DNBOUND STATIS	TICS	119	387	8	514	78	565	643	124	146	9	279	820
TOTAL		235	771	18	1024	474	787	1261	246	295	18	559	1124
ROBERT S KERR LI	DCK & DAM &RE	S E	EX										
UPBOUND STATIS	TICS	114	248	6	368	392	227	619	120	162	9	291	309
DNBOUND STATIS	rics	120	265	3	388	78	566	644	122	152	8	282	809
TOTAL		234	513	9	756	470	793	1263	242	314	17	573	1119
HEBBERS FALLS LI	DCK & DAM	X	KX.										
UPBOUND STATIS	FICS	109	99	9	217	268	217	485	114	65	16	195	298
DNBOUND STATIS	FICS	112	112	5	229	93	391	484	116	68	17	201	575
TOTAL		221	211	14	446	361	808	969	230	133	33	396	874
CHOUTEAU LOCK &	DAN	X	TX.										
UPBOUND STATIS	TICS	97	36	12	145	201	167	368	108	29	6	143	216
DMBOUND STATIS	TICS	97	38	13	148	63	310	373	108	33	7	148	449
TOTAL		194	74	25	293	264	477	741	216	62	13	291	665
NEWT GRAHAM LOCI	K & DAH	X1	t X										
UPBOUND STATIST	FICS	94	35	10	139	196	167	363	103	33	5	141	215
DIBOUND STATIST	rics	93	39	11	143	66	296	362	104	36	6	146	423
TOTAL		187	74	21	282	262	463	725	207	69	11	287	638

TABLE 3

ENUL	DIZIKICI MAME	DIVISION NAME										NONTHS REPURTED						
H5	TULSA	SOUTHMESTERN										7/83		8/83		9/83		
						LOCK PROCESSING TIME (MIN.)								ALL TIMES EXPRESSED IN				
											4.)			DELAYED	DELAY	DELAY	DELAY	
			APPRO	ACH		ENTR	PY		HAMB	ER		EXIT		: TOMS	TIME	AVG	MAX	
		MIN	AVG	MAX	: MIN	AVG	MAX	: HIN	AVG	MAX	: MIN	AVG	MAX	:	TONS	TONS	(ALL VSLS)	
A	ARKANSAS RIVER													457 * 25# * A & 6				
H D HAYO L	.OCK & DAM	1	8	35	1	6	35	5	10	26	1	7	38	21	432	1.8	100	
ROBERT S K	ERR LOCK & DAM &RI	E 1	6	28	1	7	33	5	14	27	2	8	41	22	661	2.8	74	
WEBBERS FA	LLS LOCK & DAM	1	13	60	1	7	32	7	19	55	1	8	45	69	1164	5.2	123	
CHOUTEAU L	.OCK & DAM	1	8	32	1	6	23	8	15	40	1	8	33	123	252	1.2	40	
NENT CRAHA	M LOCK & DAM	1	9	38	1	7	24	5	14	27	2	11	42	20	310	1.6	54	

Appendix B

Glossary

Draft: This is not a physical lock dimension. It is compared with new data before it is added to the central library to ensure that vessel drafts are not recoreded improperly.

Tows: Only tows with barges are included with this figure. Tows without barges (light boats) and other commercial vessels are counted as "other vessels."

Other vessels: All vessels other than tows with barges and recreational vessels.

Commercial lockages: The number of lockages for which the prime mover is a tow, a light boat, or another commercial vessel.

Recreational lockages: The number of lockages during which there are only recreational vessels using a lock.

Other lockages: The number of lockages during which the prime mover is a government vessel, a government contracted vessel (such as a dredge) or an unidentified type of vessel. Also included in this category are navigable and open pass lockages.

Total lockages: A lockage includes all lock activity necessary to processa tow and is counted only once when more than one vessel uses the lock. Thus, both cuts of a double cut lockage (e.g. only part of the tow will fit in the lock and it is necessary to process the tow in two pieces) count as a single lockage together and the count increases by only one when two tows are processed during a single lockage.

Processing time: Only the times needed to process tows with barges are included in these statistics.

Delayed vessels: Number of tows experiencing delay between arrival time and the time the lock is ready to process them.

Average delay: Average time of delay for all tows.

Maximum delay: Maximum delay time for vessels. This figure may reflect a single, extraordinary circumstance and should be evaluated accordingly.

文 U.S. Government Printing Office: 1986-491-036/45781

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